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Special Report: The Giant Screen Films of 2019

As many as 14 new original giant-screen films could open in 2019, which would be the largest total since 2002. Topics covered in these titles include the usual mix of exotic locations (7), space (4), and animals (2), plus the third entry in **Stephen Low's** rail trilogy.

In addition, at least two dozen Hollywood features will be screened in multiplex IMAX theaters, some of which will also be shown in institutional IMAX theaters. As this issue goes to press we know the names of 21 of them.

In last year's report on the films of 2018, we predicted that a record 21 films might be released, and although in the end only 13 actually were, that itself is a record unmatched since 2002. Five of those 21 have slipped into 2019:

<i>Angkor Wat</i>	K2 Studios
<i>Cuba</i>	Giant Screen Films
<i>Hidden Pacific</i>	Giant Screen Films
<i>Train Time</i>	Stephen Low Company
<i>Touch the Stars</i>	BIG & Digital

Three other projects expected to open

in 2018 appear to have stalled: *Fire Fighters*, *Sea Of Love*, and *Powered by Wind*.

Topics

Fully half of 2019's films focus on a specific location, a classic GS topic. From the *Great Bear Rainforest* in British Columbia to the Chesapeake Bay (*Expedition Chesapeake*) to *Cuba* to Cambodia (*Angkor Wat: The Lost Empire of Cambodia*) to the *Hidden Pacific* to the mountain ranges of South and North America (*Out of Bounds*) and in *Ancient Caves* all around the world, this year's films will again take viewers to locations they might otherwise never experience. Many of these films will also delve into another perennial favorite subject for GS films: underwater life.

Once they've fully explored the Earth, 2019's GS filmgoers can travel back to 1969 and blast off to the Moon with **Neil Armstrong**, **Buzz Aldrin**, and **Michael Collins** on board *Apollo 11: First Steps*. (A feature-length theatrical version will be released around the same time.) They can *Touch the Stars*, or explore the *Secrets of the Universe*, or prepare for an *Asteroid Impact*.

Animal lovers can romp with *SuperPower Dogs* or follow the efforts of scientists to bring endangered species *Back from the Brink*.

And rail buffs can take another rail excursion with *Train Time*.

DMR films

The Hollywood films being released to IMAX theater in 2019 also include the standard mix of genres, with action and superhero flicks predominating. Comic books titles include *Captain Marvel*, (see *FILMS* on page 5)

Digital Camera Color Test

by Pawel Achtel, ACS

This article is based on a presentation that the author gave in the Technical Session at the 2018 GSCA Conference in Chattanooga, TN.

Understanding color science is important for those of us making and showing giant-screen films because color is an essential aspect of the vibrant, rich, and inspiring images we aspire to bring to our audiences. The quality (color space) of the pixels we capture and present contributes as much to the overall image quality as the quantity of those pixels (resolution).

My colleagues at the **Australian Cinematographers Society** and I wanted to test the color reproduction capabilities of the currently available high-resolution digital cinema cameras. We were able to obtain four of the five cameras recently used in the **Giant Screen Cinema Association's** 8K Digital Camera Comparison test (see *Summer 2018 and Sept.-Oct. 2018*). Using laboratory-quality test equipment we were able to objectively measure their ability to sense monochromatic colors, which indicates how faithfully they will reproduce the scenes they are used to capture.

But before we get to the test, I should explain some key principles of color science, which is one of the least understood areas of the filmmaking craft. So let's shine some light on it.

(see *COLOR* on page 9)

Premiering This Month

Touch the Stars

See page 5.

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GSCA Film Expo Preview: March 11–13

The Giant Screen Cinema Association will hold a Film Expo in Los Angeles, CA, March 11–12, followed by a one-day Filmmaker Symposium on March 13. The Film Expo will feature screenings of new films and presentations on films in production and development. The Filmmaker Symposium will “provide in-depth insight into the unique nature of the giant screen filmmaking industry, from development and preproduction all the way through distribution and marketing,” according to the association.

Screenings will be held at the **AMC CityWalk IMAX Theatre** and sessions will take place at the Universal City Hilton nearby. For more information and to register, visit giantscreencinema.com.

Monday, March 11: Film Expo Day 1

8:00 am	Walk to Theater
8:30 am – 5:00 pm	Registration and Information
8:30 am – 8:45 am	Welcome
8:45 am – 9:30 am	Film 1
9:30 am – 10:15 am	Film 2
10:15 am – 10:30 am	Break
10:30 am – 11:15 am	Film 3
11:15 am – 11:50 am	Projects in Development
11:50 am – 12:00 pm	Trailers
12:00 pm – 1:15 pm	Lunch on your own
1:15 pm – 3:15 pm	Films in Production Session
3:15 pm – 3:30 pm	Break
3:30 pm – 4:15 pm	Film 4
4:15 pm – 5:00 pm	Film 5
5:00 pm – 5:45 pm	Film 6
7:15 pm	Dinner on your own

Tuesday, March 12: Film Expo Day 2

7:30 am – 9:00 am	Registration and Information
8:00 am – 9:15 am	GSCA Member Meeting and Breakfast
9:15 am	Walk to theater
10:00 am – 4:45 pm	Registration and Information
10:00 am – 10:45 am	Film 7
10:45 am – 11:30 am	Film 8
11:30 am – 12:15 pm	Film 9
12:15 pm – 2:00 pm	Lunch on your own
2:00 pm – 2:45 pm	Film 10
2:45 pm – 3:30 pm	Film 11
3:30 pm – 3:45 pm	Break
3:45 pm – 4:30 pm	Film 12
4:30 pm – 5:15 pm	Film 13
5:15 pm	Walk to hotel
5:45 pm – 6:45 pm	GSCA Board Meeting Dinner on your own

Wednesday, March 13: Filmmaker Symposium

7:30 am – 3:00 pm	Registration and Information
8:00 am – 8:15 am	Welcome
8:15 am – 9:30 am	Tales from the Trenches: First-Time Filmmakers Share Their Lessons Learned
9:30 am – 10:00 am	The Business of the Giant Screen
10:00 am – 10:15 am	Break
10:15 am – 12:00 pm	Understanding the Audience
12:00 pm – 1:45 pm	Lunch and mini trade show
1:45 pm – 3:00 pm	The Art of Storytelling for the Giant Screen
3:00 pm – 3:15 pm	Walk to IMAX Theater
3:15 pm – 5:00 pm	Technology Tools for Giant Screen Filmmaking
5:00 pm – 6:00 pm	Giant Screen Scenes That Have Moved and Inspired
6:00 pm – 8:00 pm	Cocktails



AMC Citywalk IMAX Theatre will host the GSCA Film Expo and Filmmaker Symposium.

IMERSA Summit Preview: Feb. 2–5, Columbus, OH

IMERSA, the association of Immersive Media, Entertainment, Science, and Art, will hold its annual Summit in Columbus, OH, Feb. 2–5. The meeting will feature screenings of nearly 30 fulldome shows, and more than 30 speakers will offer workshops, panel discussions, and talks on fulldome shows and the techniques and technologies for creating and presenting them.

The conference host will be **COSI Columbus**. For more information and to register, visit IMERSA.org.

Saturday, February 2

- 9:30 am Workshop A: Navigating IMERSA and Fulldome Basics, Andy Zakrajsek, host.
- 10:00 am Workshop B: Supporting Immersive Artistry, Clea T. Waite, Thomas Kraup, Ron Proctor.
- 11:00 am Workshop C: Advanced Shooting and Editing for Fulldome, Sebastian Gauthier, host; Pavel Karas, Sebastian Gauthier, Yuri Sado, Ryan Jackson.
- 11:00 am Workshop D: Gaming and Interactivity, Belin Fieldson, host; Sascha Kriegel, Jamie Strecker.
- 12:30 pm Lunch on your Own at COSI
- 2:00 pm Workshop E: Designing Immersive Exhibit Experiences, Jeff Bowen, Brian Norris, Bowen Technovation, hosts.
- 2:00 pm Workshop F: Software for Fulldome, Ben Efram, host; Pat Pomerleau.
- 3:00 pm Workshop G: Creating Immersive Spaces, Ty Owen, host; Lance Ford Jones, Toshi Takahei, Phillippe Baylaucq, René Chénier
- 3:00 pm Workshop H: Immersive Audio, Monica Bolles, host; Jeff Merkel, David Ledox, Ricky Graham, Peter Otto.
- 4:00 pm Workshop I: Live Performers in the Dome, Sebastien Gauthier, host. Loïc Quesnel, Ron Proctor, Jor-

- dan Smith.
- 4:00 pm Workshop J: Immersive Audio (part II), Monica Bolles, host; Pip Greasley, Dale Parson, Charlie Morrow.
- 5:30 pm Opening Welcome, IMERSA Board, producers
- 6:00 pm J Walt performance: **Lucid Dreamscapes**
- 7:00 pm Welcome Reception
- 8:30 pm Fulldome shows:
Skylark (4:50)
Expedition Reef (28:00)
Birth of Planet Earth (28:00)

Sunday, February 3

- 9:00 am Session B: The Influence of Fulldome, Michael Daut, host; Carolyn Collins Petersen, Mark C. Petersen, Micky Remann, Ka Chun Yu.
- 10:00 am Coffee Break
- 10:30 am Session C: Exciting Projects, Dan Neafus, producer; Clea Waite, Adrian Waschmann, Thomas Kraupe, Yuri Sado, Toshiyuki Takahei, Ryan Jackson, Alexey Irkov, Björn Jensen.
- 12:30 pm Lunch on your own at COSI
- 2:00 pm Session C, continued. Paul Mowbray.
- 2:30 pm Session D: Creating Audience Impact Through Emotional Connection, Michael Daut, producer.
- 3:45 pm Session E: Fulldome Issues Forum, Carolyn Collins Petersen, session producer, Andy Zakrajsek, moderator.
- 5:15 pm Fulldome Show: **Mars 1001** (53:00)

Monday February 4

- 9:00 am Session G: Weaving a Tapestry of Sound, Michael Daut, session producer; Kevin Bolen
Fulldome short: **Visit** (5:00)
- 10:30 am Coffee Break
- 11:00 am Session H: Music in the Service of Storytelling, Carolyn Collins Petersen, session producer; Johannes Kraas, Rocco Helmchen.
Fulldome short: **Specimens of Ephemeral Worlds** (3:36)
- 11:30 am **Dimensions: Once Upon Our Reality** (51:00), Rocco Helm-

chen and Johannes Kraas, producers.

- 12:30 pm Lunch on your own at COSI
- 12:30 pm 3D Audio session demonstrations, Monica Bolles, session producer. Clea T. Waite.
- 2:00 pm Session I: The Future of Immersive Audio, Monica Bolles, session producer; Kevin Bolen, Joel Douek, Marta Gospodarek, Peter Otto
Fulldome short: **Hidden Garden** (7:00)
- 3:30 Session J: Sponsor Demos in the Planetarium, Andy Zakrajsek, host; Barco, Big & Digital, Bowen Technovation, Christie Digital, Evans & Sutherland, GOTO Inc, Loch Ness Productions, Ohira Tech/Megastar, Reef Distribution.
- 5:00 pm Vendor Exposition
- 6:00 pm 3D Audio session demonstrations (repeat)
- 7:30 pm Special Live Performance: **SPHERE** (60:00), Robot Koch, Mickael Le Goff, performers

Tuesday February 5

- 9:00 am Fulldome short: **Sonolumin** (5:00) Diana Reichenbach, producer.
- 9:05 am Session K: Live Action In Native Fulldome, Paul Fraser, session producer; Sebastien Gauthier, Julia Redwood, Robin Sip.
- 10:30 am Coffee Break
- 11:00 am Fulldome show: **Ningaloo: Australia's Other Great Reef** (27:00)
- 11:30 am Works in Progress:
In Saturn's Rings
CapComGo
Piano
Switched-on Moog.
- 12:30 pm IMERSA Tenth Anniversary Luncheon
- 2:00 pm Session M: Immersive Storytelling, Dan Neafus, session producer, Matt Heenan, host.
Holosenze (11:00)
The Game (8:00)
Vestige (11:21)
The Chinese Sky (4:00)
Spirit of the Ice (6:00)
Rocket 3,2,1
Planets 360
Starmaker (28:00)
- 4:00 pm Session N, Fascinating Fulldome, Dan Neafus, producer/host
HORIZON: Beyond the Edge of the Visible Universe (10:00 excerpt)
Immersive Stargazing Aurora and Hawaii (6:00)
Lost in Time: Wonders of Iceland (12:00)
Moravia 360 excerpt
Sky Tour (13:00)
- 5:30 pm Fulldome Show: **EXO: Are we Alone?** (25:00)
FUGA (2:56)

COSI Columbus will host IMERSA 2019, Feb. 2–5.

(Does not include limited or regional DMR releases. Key to abbreviations is on page 20)

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IMAX DMR (live action)

■ Animation/CGI

■ Digital

■ Digital
■ LE Film

Bold text = 3D

White text = Made for GS



Touch the Stars

(from FILMS on page 1)

Avengers: Endgame, *Spider-Man: Far From Home*, and *The New Mutants* from Marvel Studios; *Dark Phoenix*, an entry in the X-Men franchise from Twentieth Century Fox; *Shazam!*, a DC Comics tale from Warner Bros. Pictures; *Alita: Battle Angel* from Fox, based on a cyberpunk *manga* (Japanese comic book); and a reboot of *Hellboy* from Lionsgate.

Other action titles include M. Night Shyamalan's *Glass*; Fox's *Ad Astra*; *Men in Black International* from Sony Pictures Entertainment, *Artemis Fowl* from Walt Disney Pictures, and *Star Wars, Episode IX*, also from Disney.

But Imax Corporation continues to increase its family-friendly fare with a live-action remake of Disney's classic *Dumbo* and a quartet of sequels: *Lego Movie 2: The Second Part*, *How to Train Your Dragon: The Hidden World*, *Toy Story 4*, and *Frozen 2*.

James Cameron's long awaited sequel to his smash hit *Avatar* (2009) had originally been expected in 2018, but is now set for release in late 2020. He is reportedly shooting it in high dynamic range (HDR) and high frame rate (HFR), although what actual rate he may be using hasn't been revealed.

Below are the giant-screen films of 2019, listed chronologically by their announced release dates. Summaries in quotation marks were provided by the producers. Additional production updates can be found in "In Production" on page 10.

Underlined titles indicate that the film is in 2D. All others are 3D.

DMR titles officially announced by

Imax Corporation at press time are listed in the box at right. This list does not include films that will be shown only in specific countries or regions.

Touch the Stars

Produced by **Afterglow Studios** and distributed by BIG & Digital. Directed and produced by **Luke Ployhar**, written by

Scott Pearson. Release: January.

"*Touch the Stars* centers on mankind's probes used in exploration of our solar system and the galaxy beyond. The film traces the path to space through the history of NASA's probes, orbiters, and landers, from the heart of our solar system to the surface of the other planets and moons, to the grand tour of the Voyager spacecraft through the outer planets and beyond. Created with the latest imagery and scientific data, *Touch the Stars* uses inspiring real footage and three-dimensional vistas of our solar system and interstellar space to transport audiences to planets and distant stars alongside these intrepid robot explorers. *Touch the Stars* will be released in stunning 8K resolution."

Great Bear Rainforest (wt)

Produced by **Spirit Bear Entertainment** and distributed by **MacGillivray Freeman Films**. Directed, produced, photographed, and written by **Ian McAllister** and **Jeff Turner**, and scored by **Hans Zimmer**. Executive producers: **Byron Horner** and **Kyle Washington**. Narrated by **Ryan Reynolds**. Release: Feb. 15.

"Filmmakers Ian McAllister and Jeff Turner and executive producers Kyle Washington and Byron Horner of Spirit Bear Entertainment are partnering with MacGillivray Freeman Films to distribute a beautiful giant-screen film about one of the rarest animals on Earth: the

2019 DMR FILMS

Title	Dist	Release
<i>Glass</i>	WDPD	Jan. 18
<i>The Lego Movie 2: The Second Part</i>	WB	Feb. 8
<i>Alita: Battle Angel</i>	FOX	Feb. 14
<i>How to Train Your Dragon: The Hidden World</i>	UP	Mar. 1
<i>Captain Marvel</i>	WDPD	Mar. 8
<i>Dumbo</i>	WDPD	Mar. 29
<i>Shazam!</i>	WB	Apr. 5
<i>Hellboy</i>	LG	Apr. 12
<i>Avengers: Endgame</i>	WDPD	Apr. 26
<i>Godzilla: King of Monsters</i>	WB	May 31
<i>Dark Phoenix</i>	FOX	Jun. 7
<i>Men in Black International</i>	SONY	Jun. 14
<i>Toy Story 4</i>	WDPD	Jun. 21
<i>Spider-Man: Far From Home</i>	SONY	Jul. 5
<i>The Lion King</i>	WDPD	Jul. 19
<i>The New Mutants</i>	FOX	Aug. 2
<i>Artemis Fowl</i>	WDPD	Aug. 9
<i>IT: Chapter 2</i>	TBD	Sep. 6
<i>Frozen 2</i>	WDPD	Nov. 22
<i>Star Wars: Episode IX</i>	WDPD	Dec. 20

fabled all-white Spirit Bear. These remarkable creatures live in the lush temperate rainforests of British Columbia on Canada's west coast, where they hold almost mythic status among the region's indigenous people. Shot exclusively for the giant screen, *Great Bear Rainforest* (working title) will offer a remarkable journey into one of the planet's most spectacular wildernesses — a land of wolves, grizzly bears, humpback whales, sea lions, sea otters, and others — as it explores the secret world of the Spirit Bear."

Cuba

Produced by **Golden Gate 3D** and distributed by **Giant Screen Films**. Directed by **Peter H. Chang**, produced by **Violet**

(see FILMS on page 6)



Great Bear Rainforest

Cuba

(from FILMS on page 5)

Angell, Peter H. Chang, **Josue Lopez Lozano**, and **Robert Mooring**, photographed by Peter H. Chang, **Christopher Doyle**, **Justin Henning**, and **Peter Zuccarini**, written by Robert Mooring and **Mose Richards**. Executive producers: **Kelyn Brannon**, **Mike Day**, **Dave Duszynski**, **Joshua Goltz**, **Don Kempf**, **Neil Nightingale**, **Jonathan Rowe**, and **Andy Wood**. Cast: **Eusebio Leal**, **Patricia Torres**, **Fernando Bretos**, and **Daria Siciliano**. Release: early 2019.

"*Cuba* tells the powerful story of a land preserved in time, yet poised on the cusp of dramatic change. The nation's vibrant culture, meticulously maintained colonial architecture, and pristine ecosystems provide a vivid window into the island's history and spirit. *Cuba* will transport audiences across breathtaking landscapes, under the ocean surface to iridescent reefs, and into streets throbbing with music and dance in the heart of Havana.

Through the eyes of Cuban artists, historians, and scientists, the film provides an intimate look this vivacious island na-



Superpower Dogs

tion. Filmed exclusively for the giant screen format, *Cuba* reveals why Cuba continues to stir the imagination of the world. *Cuba* is produced by Golden Gate 3D in association with **BBC Earth**, **Giant Screen Films**, and the **Giant Dome Theater Consortium**."

Superpower Dogs

Produced by **Cosmic Picture** and distributed by **Imax Corporation** and **Cosmic Picture**. Directed by **Daniel Ferguson**, produced by **Taran Davies**, **George Duffield**, **Dominic Cunningham-Reid**, and **Daniel Ferguson**, photographed by **Reed Smoot**, written by **Daniel Ferguson**, and scored by **Michael Cusson**. Release: March 9.

"Join an immersive IMAX adventure to experience the life-saving superpowers and extraordinary bravery of some of the world's most amazing dogs. In this inspiring true story, our best friends are also real-life superheroes. Journey around the globe to meet remarkable dogs who save lives, and discover the powerful bond they share with their human partners. Follow Halo, a rookie puppy training to join one of the most elite disaster response teams in America. Meet Henry, an avalanche rescue expert in the Canadian Rockies; Reef, a Newfoundland lifeguard with the Italian coast guard; Ricochet, a Californian surf legend helping people with special needs; and the Bloodhound brothers, Tipper and Tony, who are leading the fight to save endangered species in Africa. As we discover the incredible abilities of dogs and the astonishing science behind their superpowers, we'll never look at our best friends the same way again!"

Expedition Chesapeake

Produced by **Whitaker Center Productions** and **Via Studios Global** and distributed by **BIG & Digital**. Directed and written by **Greg Matosky**, produced by **Ben Payavis II**, and photographed by **James Neihouse**. Executive producers: **Tom Currá** and **Jeff Corwin**. Cast: **Jeff Corwin**. 2D. Release: March 20.

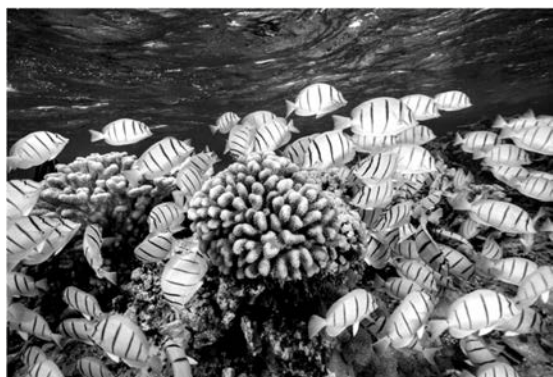
"*Expedition Chesapeake, A Journey of Discovery* is the first giant-screen film to capture the stunning natural beauty of the largest estuary in North America. The film displays the incredible diversity found in the watershed with thousands of rivers and streams that feed the Chesapeake Bay with billions of gallons of fresh water each day. Water is a constant element in the film, as it is the sustaining force for all forms of life in the watershed as well as the bay.



Expedition Chesapeake

"Three-time Emmy Award-winning wildlife biologist **Jeff Corwin** is our expedition leader as we travel from the headwaters of the Susquehanna River in New York through the rugged Alleghany Mountains, and down to the sandy shores of uninhabited islands at the southern end of the Chesapeake Bay. Along the way we meet dedicated scientists who have devoted their careers to studying, nurturing and sustaining beloved animal species in the region.

"The survival and resilience of iconic and intriguing animal species, including river otters, blue crab, osprey and hellbenders, illustrate the important role that each of us plays in the reclamation, conservation and future health of watersheds



Hidden Pacific

and estuaries wherever we live.”

Hidden Pacific

Produced by **Tandem Stills + Motion** and distributed by **Giant Screen Films**. Directed by **Ian Shive**, produced by Ian Shive, **Erika Nortemann**, and **Mark Fletcher**, photographed by Ian Shive, written by **Mark Fletcher**, and scored by **Cody Westheimer**. Executive producers: **Andy Wood**, Ian Shive, and **Alice Garrett**. Starring **Jessica Kim**, **Susan White**, and **Charlie Pelizza**. Release: April 22.

“*Hidden Pacific* is a pioneering film that profiles some of the Pacific Ocean’s



Angkor Wat: The Lost Empire of Cambodia

most beautiful islands and marine national monuments — breathtaking places that will leave audiences with a deep-felt appreciation for the beauty of nature untouched by civilization. The storied histories of Palmyra, Midway, and other atolls — from the WWII Pacific theater to their present environmental recovery and ecological research initiatives — provide the platform from which the film explores a diversity of science and human stories. *Hidden Pacific*

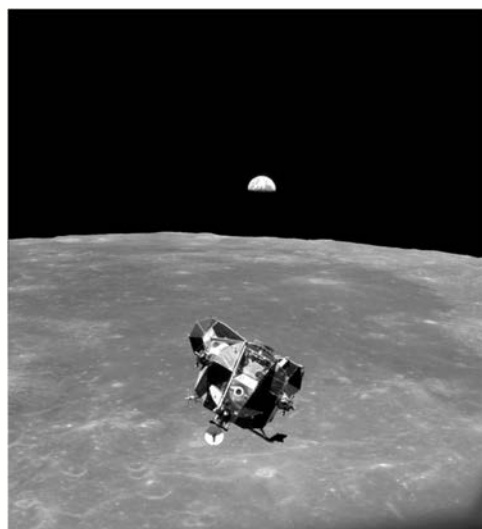
is produced by **Tandem Stills + Motion**, in cooperation with the U.S. Fish & Wildlife Service and affiliated organizations, which provided the filmmakers with unprecedented access to the bio-secure zones of the marine monuments. Launching globally in museum, zoo, aquarium, giant-screen and IMAX cinemas on Earth Day 2019.”

Angkor Wat: The Lost Empire of Cambodia

Produced by **Definition Films** and **Helio Projects** and distributed by **K2 Studios**. Directed by **Murray Pope** and written by **John Weiley**. Release: April.

“A civilization that rose to become the envy of the world, only to disappear; a mystery waiting to be unlocked by modern archaeologists, scientists, and explorers. Following an epic spree of religious building whose scale and ambition rivals the pyramids of Egypt, Angkor is the scene of one of the greatest vanishing acts of all time. The Khmer kingdom lasted from the 9th to the 15th centuries and at its height dominated a large swathe of South-East Asia from Myanmar in the west to Vietnam in the East. As many as one million people lived in Angkor, the capital, which sprawled across an area the size of New York’s five boroughs, making it the most extensive urban complex of the pre-industrial world. By the late 16th century, the once-resplendent capital of the empire, with its thousands of elaborate temples and religious monuments, was being overrun by the surrounding jungles.

Many experts have attempted to provide answers, and theories abound. Thirteen hundred carved inscriptions survive on temple door-jambes but the Khmer people of Angkor left not a single word explaining their kingdom’s collapse. This will be a visually stunning film, an epic adventure



Apollo 11: First Steps

where science, mystery and ancient civilization intersect.”

Apollo 11: First Steps

Produced by **Statement Pictures** and **CNN Films** and distributed by **MacGillivray Freeman Films**. Directed by **Todd Douglas Miller**, produced by Todd Douglas Miller, **Thomas Petersen**, **Evan Krauss**. Executive producers: **Amy Entelis**, **Courtney Sexton**, **Josh Braun**. 2D. Release: May 17.

“Timed for release around the 50th anniversary of the first lunar landing, *Apollo 11: First Steps* gives a thrilling, direct-cinema experience of NASA’s historic Apollo 11 mission. With the assistance of NASA, National Archives, and a global team of researchers, the filmmakers have unearthed a treasure trove of never-before-seen footage and audio recordings to reconstruct the mission in astonishing detail. Told primarily with archival materi-

(see **FILMS** on page 8)



Secrets of the Universe



Train Time

(from **FILMS** on page 7)

als, the film puts audiences back in 1969 when the world united to watch man's first steps on the moon. From Emmy Award-winning filmmakers of *Dinosaur 13*, Statement Pictures, in partnership with CNN Films and distributed by MacGillivray Freeman Films, *Apollo 11: First Steps* will premiere May 17, 2019."

Secrets of the Universe

Produced by the **Stephen Low Company** and distributed by K2 Studios. Directed and photographed by Stephen Low and produced by **Pietro Serapiglia**. Executive producer: K2 Studios. Narrator: **Simon Helberg**. Release: May.

"We are at the beginning of a period of unprecedented technological advancement, catalyzing a new age of scientific discovery. Travel with us on this immersive giant-screen film as we explore the most exciting machines ever conceived by man, including the Large Hadron Collider and James Webb Space Telescope. See how these new experiments allow us to look deeper into our origins and unveil



Out of Bounds

the mysteries of dark energy, dark matter, and extra dimensions."

Train Time

Produced and distributed by Stephen Low Company. Directed and written by Stephen Low, produced by Pietro Serapiglia and Stephen Low. Executive producer: **Paul Globus**. 2D. Release: September.

"*Train Time* follows the trek of a modern freight train through the communities it serves, revealing the beauty, vastness, and diversity of the American landscape and the evolving role and remarkable heritage of railroading, a profession integral to the fabric of modern civilization.

"Along parallel bands of steel, we race through prairies, mountains, and deserts, through cities, towns, and wilderness. Along the way, railroaders and the tracks and trains themselves offer up a remarkable story of engineering, of frontier-taming and community-building, of human ingenuity and industry."

Out of Bounds

Produced by **Wild Pacific Media** and distributed by K2 Studios. Directed by **Caspar Mazzotti**, produced by **Nick Robinson**, **Dave Gross**, and **Mark Kresser** photographed by Nick Robinson, and written by **Mark Krenzien** and Caspar Mazzotti. Cast: **Torah Bright**. Release: October.

"*Out Of Bounds* will follow Australian Olympic gold medalist snowboarder Torah Bright on a journey from the penguins of Antarctica, to the glaciated peaks of Alaska. This is the American Cordillera, the longest chain of mountain ranges in the world. Critical to life, they fill rivers, sway weather, shape history, and

provide sanctuary to diverse and unique wildlife, their infinite allure and beauty always matched by inherent danger. Ride with Torah as we meet the athletes, scientists, and adventurers who all seek a deeper understanding of the mountains that inspire them."

Ancient Caves

Produced by **Oceanic Research Group** and distributed by MacGillivray Freeman Films. Directed and photographed by **Jonathan Bird**, produced and written by Jonathan Bird and **Art Cohen**, and scored by **Bruce Zimmerman**. Executive producer: **Shaun MacGillivray**. Cast: **Dr. Gina Moseley**, **Dr. Larry Edwards**, **Brian Kakuk**, **Todd Kelly**, and **Dr. Keith Tinker**. 2D. Release: Fall.

"Dr. Gina Moseley is a scientist on a



Ancient Caves

mission as she travels the world, exploring vast underground worlds in her quest to unlock the secrets of the Earth's ancient climate in the most unlikely places: caves. Her need for underwater samples leads her to world-renowned cave diver Brian Kakuk. Brian can go where Gina can't, and together they can reach places very few humans will ever go. *Ancient Caves* brings science and adventure together as the team embarks on an expedition to some of the world's most extreme caves, both above and below the water, to learn how fast the climate can change, and how it has affected human civilization. *Ancient Caves* was shot in dome-native format."

(see **FILMS** on page 13)

Digital Camera Color Test

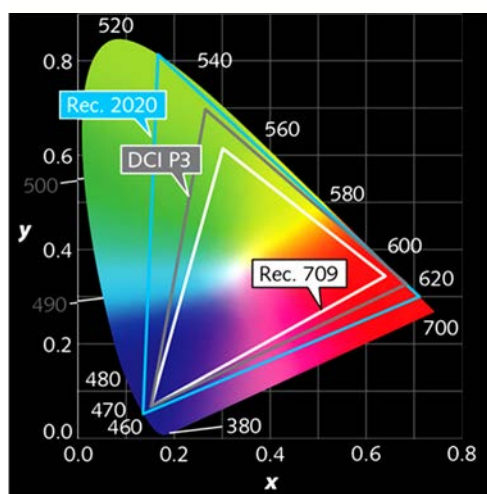


Figure 1: CIE 1931 Color Space, and the gamuts of three color standards.

(from **COLOR** on page 1)

Monochromatic colors

Figure 1 depicts XY chromaticity space, also known as the CIE 1931 diagram. It shows the full gamut of colors that humans can perceive. (Its reproduction here on a printed page is, of course, not perfect, which would require a specialized display.) On the outer curved edge, also known as the spectral locus, are all the monochromatic colors. These are colors of only one wavelength. Unlike all of the colors inside the diagram, monochromatic colors cannot be reproduced by mixing other colors. The numbers between 460 and 700 on the spectral locus represent their wavelengths in nanometers (one billionth of a meter). These monochromatic colors are always fully saturated and range from blue to cyan to green to yellow to red.

The straight line at the bottom between red and blue is called the magenta line. Magenta is *not* a monochromatic color; it is always composed of a mixture of blues and reds. Although the magenta line contains fully saturated colors, they are not monochromatic.

All colors inside the spectral locus are less saturated than those on the edge, and they are always a mixture of at least two monochromatic colors. They can also be reproduced by mixing different *combinations* of two or more other colors. For

example, grey can be reproduced as a mixture of red, green and blue, or as a mixture of yellow and cyan. To humans they will look indistinguishable even though their physical composition is entirely different.

Like humans, most digital cameras contain sensors that capture three primary colors, usually red, green, and blue. Filters over the sensor's pixels eliminate light in all but one primary color, and are arranged in a pattern called the color filter array. The most common pattern is a Bayer pattern consisting of two green, one blue and one red filter per cluster.

Color space

Color space is an abstract mathematical model which describes the range of colors as combinations (tuples) of three or four color values (e.g., RGB). Here we will look at different RGB color gamuts that are commonly used in cinematography.

A color gamut is a subset of colors that can be accurately represented in a given color space. Several different gamuts have been established as standards for various applications.

The **Rec. 709** color gamut (more formally, ITU-R Recommendation BT.709) is used in most computer monitors and high-definition televisions. It covers approximately 36% of all colors that humans can perceive. Its most saturated primary RGB colors are not exactly pure monochromatic colors, and do not lie exactly on the spectral locus, but rather within it. As you can see from the position of the upper vertex of the Rec. 709 triangle in Figure 1, the green primary in particular is quite far from the green on the spectral locus.

The most common RGB color gamut for motion pictures is **DCI-P3**, which was defined by the **Digital Cinema Initiatives** specifically for digital cinema. It is an improvement over Rec. 709, reproducing approximately 45% of all visible colors.

Rec. 2020 is a relatively new and much wider color gamut that covers about 75.8% of all visible colors. Few if any currently available displays or cameras can cover the entire Rec. 2020 gamut.

Rec. 2020 is the widest color gamut an RGB device can reproduce, because its RGB primaries are fully saturated monochromatic colors. Other gamuts have different set of primaries but cannot offer more colors, only different ones. Note that Rec. 709's primaries (the vertices of the triangle) are not fully saturated colors, i.e., they are inside the spectral locus. DCI-P3's primaries are closer to the spectral locus, and Rec. 2020's are on it.

This is why we chose Rec. 2020 as the output color gamut for our camera test.

Mapping colors within gamuts

As depicted in Figure 1, each of the gamuts includes and excludes certain colors. If a given color C lies within the RGB triangle of the gamut's primaries, it will be reproduced accurately.

On the other hand, if the color falls outside the given RGB gamut, it can be only approximated by a less-saturated color on the same vector. To see how it will be reproduced (see Figure 2), we draw a line (the color vector) between the gamut's white point and the point outside the gamut. (The white point is the mixture of the primaries that is defined as white. White points vary based on the gamut used.) The intersection with the RGB triangle at point A is the representation of color C within that gamut. Such differing

(see **COLOR** on page 12)

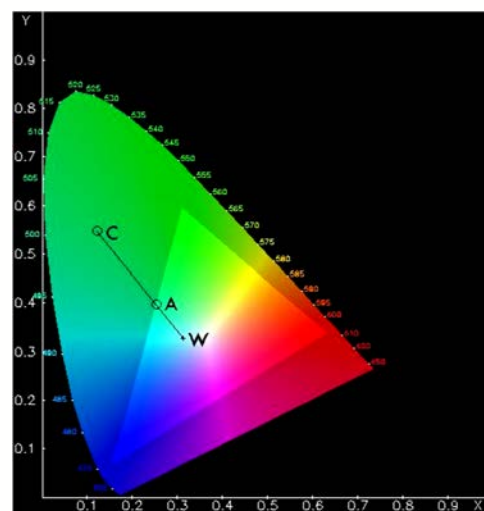


Figure 2: Mapping a color outside the color gamut (C) will appear as a less saturated version (A).



* New listing.

All films are 3D unless noted; underlined titles are 2D.

Updated information is printed in bold.

Unless noted, all films run about 40 minutes.

Great Bear Rainforest

Spirit Bear Entertainment; distributor: MacGillivray Freeman Films; directors, producers, DPs, script: Ian McAllister, Jeff Turner; score: Hans Zimmer; executive producers: Byron Horner, Kyle Washington. Narrator: Ryan Reynolds. Release: Feb. 15.

- Principal photography is complete, post production is under way.

Cuba

Golden Gate 3D; distributor: Giant Screen Films; director: Peter H. Chang; producers: Violet Angell, Peter H. Chang, **Josue Lopez Loxano**, Robert Mooring; DPs: Peter H. Chang, Christopher Doyle, **Justin Henning**, Peter Zuccarini; script: Robert Mooring, Mose Richards; executive producers: Kelyn Brannon, Mike Day, **Dave Duszynski**, **Joshua Goltz**, **Don Kempf**, Neil Nightingale, Jonathan Rowe, **Andy Wood**. Cast: Eusebio Leal, Patricia Torres, Fernando Bretos, Daria Siciliano. Release: February.

Superpower Dogs

Cosmic Picture; distributor: Imax Corporation, Cosmic Picture; director: Daniel Ferguson; producers: Taran Davies, George Duffield, Dominic Cunningham-Reid, Daniel Ferguson; DP: Reed Smoot; script: Daniel Ferguson; score: Michael Cusson. Release: March 9.

- Picture is locked. Music, color timing, sound design and visual effects work under way.

Expedition Chesapeake

Whitaker Center Productions, Via Studios Global; distributor: **BIG & Digital**; director, script: Greg Matosky; producer: Ben Payavis II; DP: James Neihouse; executive producers: Tom Currá, Jeff Corwin. Cast: Jeff Corwin. 2D. Release: March 20.

- Principal photography is complete, post production is under way.

Hidden Pacific

Tandem Stills + Motion; distributor: Giant Screen Films; director: Ian Shive; producers: Ian Shive,

Erika Nortemann, Mark Fletcher; DP: Ian Shive; script: Mark Fletcher; score: Cody Westheimer; executive producers: Andy Wood, Ian Shive, Alice Garrett.

Cast: Jessica Kim, Susan White, Charlie Pelizza. Release: April 22.

- Post production, narration, and editing are under way.

Angkor Wat: The Lost Empire of Cambodia

Definition Films, Helio Projects; distributor: K2 Studios; director: Murray Pope; writer: John Weiley. Release: April.

Apollo 11: First Steps

Statement Pictures, CNN Films; distributor: MacGillivray Freeman Films; director: Todd Miller; producers: Todd Douglas Miller, Thomas Petersen, Evan Krauss. Executive producers: Amy Entelis, Courtney Sexton, Josh Braun. 2D. Release: May 17.

- Post production is under way.

Secrets of the Universe

Stephen Low Company; distributor: K2 Studios; director: Stephen Low; producer: Pietro Serapiglia; executive producers: K2 Studios. Narrator: Simon Helberg. Release: May.

- November 2018: Filmed Large Hadron Collider and scientists at CERN and Geneva.

Train Time

Stephen Low Company; distributor: Stephen Low Company; director, script: Stephen Low; producers: Pietro Serapiglia, Stephen Low; executive producer: Paul Globus. 2D. Release: September.

Out of Bounds

Wild Pacific Media; distributor: K2 Studios; director: Caspar Mazzotti; producers: Nick Robinson, Dave Gross, Mark Kresser; DP: Nick Robinson; script: Mark Krenzien, Caspar Mazzotti. Cast: Torah Bright. Release: October.

- November: Filmed landscapes, wildlife, snowboarding, and climbing in Antarctica.

Ancient Caves

Oceanic Research Group; distributor: MacGillivray Freeman Film Distribution; director, DP: Jonathan Bird; producers: Jonathan Bird, Art Cohen; script: Jonathan Bird, Art Cohen; score: Bruce Zimmerman; executive producer: Shaun MacGillivray. Cast: Dr. Gina Moseley, Dr. Larry Edwards, Brian Kakuk, Todd Kelly, Dr. Keith Tinker. All digital formats. 2D. Release: Fall.

- November: Submerged Mayan remains in Mexico.
- Principal photography is complete, post production is under way.

Asteroid Impact

Imax Corporation, Huahuang Pictures; distributor: Imax Corporation; director: W.D. Hogan; producers: Jini Durr, Phil Groves; DP: Sean MacLeod Phillips; script: Phil Groves; executive producers: Anna Chi, Phil Groves. Cast: Len J. Phillips, Steve Tsang, Bernadette Janssen. Release: Fall.

- Principal photography is complete, post production is under way.

Back From the Brink

Sean Casey Productions; distributor: Cosmic Picture; director, DP: Sean Casey; producers: Jen Casey, Sean Casey; script: Mose Richards. Release: Fall.

Snow

St. Thomas Productions, nWave Studios; distributor: nWave Pictures; directors: Cyril Barbançon, Jacqueline Farmer; producer: Jacqueline Farmer; DPs: Cyril Barbançon, Jacqueline Farmer; script: Philippe Chappuis; score: Franck Marchal; executive producer: Eric Dillens. Release: Spring 2020.

Einstein's Incredible Universe (wt)

Cosmic Picture; distributor: tba; director: Daniel Ferguson; producers: Taran Davies, George Duffield, Daniel Ferguson; script: Daniel Ferguson, Mose Richards; DP: Reed Smoot. Release: fall 2020.

Wild Wonders of China

Transcendent Media, Blue Sky Aerial & Specialist Filming; distributor: tba; director: tba; producers: Peta Milan, Staffan Widstrand, Vicky Degerfeldt; DP: Peter Degerfeldt. Release: fall 2020.

- November 2018: Filmed wild snow leopards in 8K.

Colours of China

Making Movies/ China Intercontinental Communication Company/Gebrueder-beetz Filmproduktion; distributor: tba; executive producer: James Heyward. Release: 2020.

- November 2018: Filmed the Peking Opera, and in Jingdezhen, porcelain capital of China.

Cool Cities

Wild Pacific Media; distributor: K2 Communications. Release: 2020.

Dinosaurs of Antarctica

Giant Screen Films; distributor: Giant Screen Films; director: David Clark; producers: Don Kempf, Deborah Raksany, Andy Wood; DP: Reed Smoot; script: Deborah Raksany, Andy Wood. Release: 2020.

- November 2018: Filmed in Illinois.
- January: Filming dinosaur backplates in New Zealand.
- February: CGI compositing begins.

Elephant

Wild Expectations, Ltd.; distributor: tba. Release: 2020.

Feathered Dinosaurs (wt)

Saint Thomas Productions; distributor: nWave Pictures. Narrator: James Faulkner. Release: 2020.

Ireland

MacGillivray Freeman Films; distributor: MacGillivray Freeman Films. Release: 2020.

FTB

CoolCit DOA

Eleph

Snow

FeaDin Ireland

JTTGMR Leona

MFFNAF SSands

EIU

WWOC

Sereng

SeaLion Wings

AntITU

– Principal photography is complete, post production is under way.

Journey to the Great Mayan Reef (wt, formerly *The Dolphin Ambassador*)

Milbrand Cinema; distributor: tba; director, producer, DP: Lance Milbrand; editor: Dave Choice; score: Icarus Music. Cast: Kathleen Dudzinski, Eldon Bolton. **Release: 2020.**

Leonardo da Vinci: The Last Interview (wt) Camera Lucida Productions; distributor: MacGillivray Freeman Films; director: Francois Bertrand; DP: Vincent Mattias; script: Serge Bramly, Francois Bertrand. Executive producer: Francois Bertrand. **Release: 2020.**

MFF's New Adventure Film

MacGillivray Freeman Films; distributor: MacGillivray Freeman Films. **Release: 2020.**

– Principal photography is complete, post production is under way.

Secrets of the Sands

Atlantic Productions; distributor: Serengeti Entertainment. **Release: 2020.**

Secrets of the Serengeti

Digital Crossing Productions; distributor: SK Films; director, DP: Michael Dalton-Smith; producers: Michael Dalton-Smith, Jonathan Barker; script: Michael Dalton-Smith, Wendy MacKeigan; executive producer: Jonathan Barker. **Release: 2020.**

Sea Lion: Life by a Whisker

Definition Films; distributor: tba. **Release: 2020.**

Wingsuit Flyers

Grand Schema; distributor: K2 Communications; director: Christopher J. Scott; producers: John Molli, Christopher J. Scott, Aschi Michel, Tom Fore; DP: Robert Hollingworth; script: Christopher J. Scott; executive producers: Rob Sharps, Doug Greenstein, W. Kyle Gore, Daniel Verbic, Tom McCollum. **Release: 2020.**

Antarctica 3D: Into the Unknown *

BBC Earth; distributor: tba; director: Fredi Devas; producers: Jonny Keeling, Myles Connolly; executive producer: Jonathan Williams. **Release: 2020/2021.**

– Early 2019: Filming in the Antarctic Peninsula and South Georgia Island.

DMR FILMS:

Title	Dist	Release
Glass	UP, WDPD	1/18/19
The Lego Movie 2: The Second Part	WB	Feb 8
Alita: Battle Angel	FOX	2/14/19
How to Train Your Dragon: The Hidden World	UP	3/1/19
Captain Marvel	WDPD	3/8/19
Dumbo	WDPD	3/29/19
Shazam!	WB	4/5/19
Hellboy	LG	4/12/19
Avengers: Endgame	WDPD	4/26/19
Godzilla: King of Monsters	WB	5/31/19
Dark Phoenix	FOX	6/7/19
Men in Black International	SONY	6/14/19
Toy Story 4	WDPD	6/21/19
Spider-Man: Far From Home	SONY	7/5/19
The Lion King	WDPD	7/19/19
The New Mutants	FOX	8/2/19
Artemis Fowl	WDPD	8/9/19
IT: Chapter 2	TBD	9/6/19
Frozen 2	WDPD	11/22/19
Star Wars: Episode IX	WDPD	12/20/19



Director Ian Shive filming Laysan albatrosses in the Midway Atoll National Wildlife Refuge for Hidden Pacific.

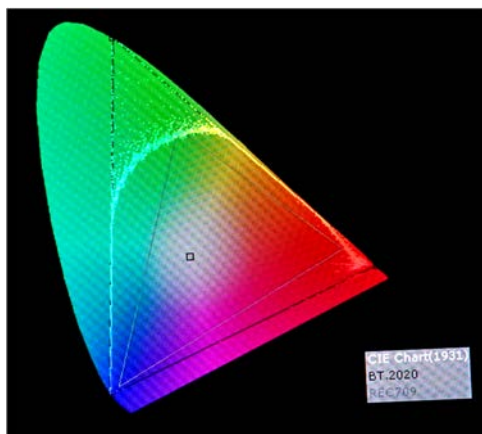


Figure 3: Arri Alexa

(from **COLOR** on page 9)

representations cause inaccuracies known as color shifts.

If two distinct colors are captured by a camera as the same color — for example, red is reproduced as magenta and magenta is reproduced as magenta — no amount of post-production processing can separate them. For this reason, we tried in our tests to assess each camera's ability to discern different colors and to reproduce them accurately

Fully saturated colors (including fully saturated primaries) should be invariant, meaning they should remain unchanged regardless of the white point chosen. Only less-saturated colors will change depending on the choice of white point. (We noticed that this was not the case in some of the cameras that we tested.)

Premise of the test

The principle of our test was to expose camera sensors to the entire range of pure

monochromatic light. Because they have RGB sensors, cameras should be able to reproduce perfectly *at most* three of those colors: 630 nm for primary red, 532 nm for the primary green, and 467 nm for the primary blue. (However, as we pointed out above, some gamuts have primaries that are not monochromatic, but are within the spectral locus.) Even with cameras whose primaries are on the spectral locus, we can expect that all other monochromatic colors will be mapped as out-of-gamut colors to the most saturated colors that the target color gamut can reproduce.

Further, we expect that the cameras should not see any magenta colors when presented with monochromatic light, because magentas are not monochromatic. The monochromator-spectrometer we used does not produce magentas or any desaturated colors. Accordingly, we expected to see only the saturated blue, cyan, green, yellow and red colors in Rec. 2020 color gamut that the system is capable of reproducing, or a little bit less than that.

The setup consisted of a Jarrel-Ash Monochromator-Spectrograph with a 300mm ruled diffraction grating, which projects a monochromatic collimated (parallel beam) spectrum between 180nm and 750nm wavelength directly onto the image plane of the camera's sensor. (See *picture of the test setup on the opposite page*.) The advantage of this approach is that, unlike using color charts, we can precisely control the colors in a way that is not affected by ambient lighting, color dyes, lenses, or any other external factors.

The Cameras Tested

The cameras that we chose for the test were:

- ARRI Alexa LF
- Panavision DXL2
- RED Monstro
- Sony Venice

These cameras all have large-format sensors and are generally available for purchase and rental. The Arri camera used in our test was supplied by **Arri Australia**; the Panavision DXL2 was provided by **Panavision Brisbane**; **Sony Australia** supplied the Sony; and the RED Monstro was provided by **Lemac**, a rental company in Brisbane. I would like to thank all the vendors

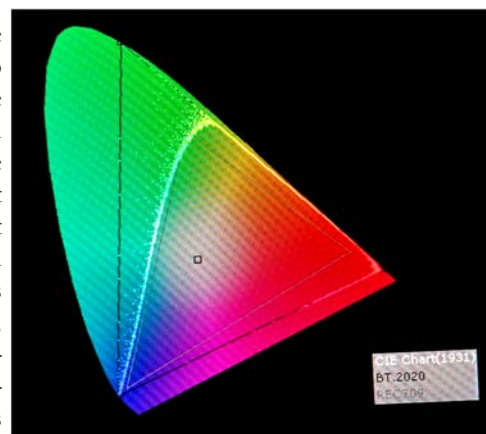


Figure 4: Panavision DXL2

for their generous support. This test wouldn't have been possible without them. As much as possible, I reached out to all the vendors seeking guidance and offering feedback from the tests.

The Results

We used each vendor's native software to process and output the images, which resulted in the best results in all cases. With three of the four cameras we were able to output the results to an external monitor. The cameras were set to output Rec. 2020 color space and the images were displayed on a calibrated Flanders Scientific DM-170 monitor with Rec. 2020 color space selected. The display was set up to show CIE 1931 chromaticity diagrams. In case of the Arri camera, we used Davinci Resolve and applied the Rec. 2020 transform node (not a look-up table) to output to an external monitor.

None of the cameras tested covered the entire Rec. 2020, but that was expected, as it is the widest gamut they could theoretic-

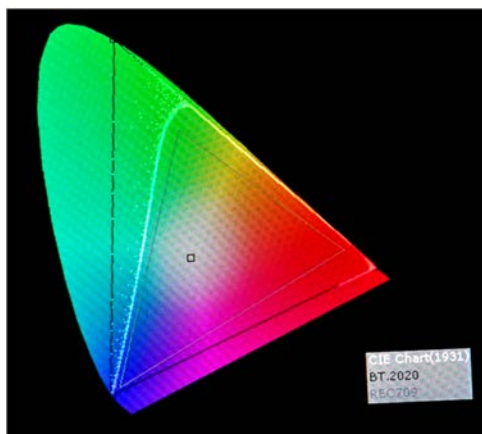


Figure 5: RED Monstro

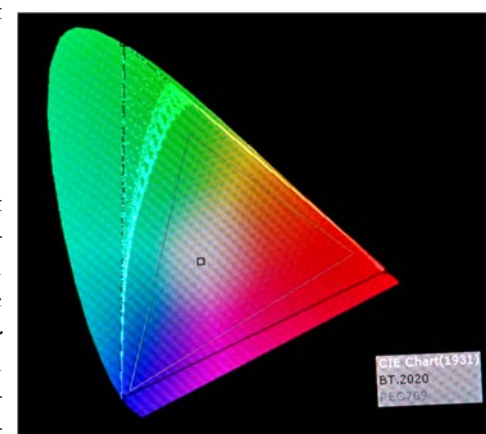


Figure 6: Sony Venice



The test setup: a Jarrel-Ash Monochromator-Spectrograph and tungsten fiber optic illuminator.

cally cover. This table shows which gamuts each camera reproduced accurately.

Camera	Rec.709	DCI-P3	Rec.2020
Arri Alexa LF	YES	NO	NO
RED Monstro	YES	NO	NO
Panavision DXL2	NO	NO	NO
Sony Venice	YES	YES	NO

Figures 4–7 on the opposite page depict the performance of each camera. The Rec. 709 standard is shown as a gray triangle, and the Rec. 2020 is the larger black trian-

gle. (DCI-P3 is not shown.) The bright trace shows the camera's response.

You can see that the Arri Alexa covers the entire Rec. 709 gamut, as do the RED Monstro and the Sony Venice, but the Sony goes beyond and also encompasses the DCI-P3. The Panavision DXL2 does not completely enclose the Rec. 709 gamut, failing to hit the green primary. The RED and Panavision cameras have unexpected and significant color shifts (as revealed in vectorscope images that are not included here), essentially reproducing reds as magentas.

In addition to covering the Rec. 709 and DCI-P3 color gamuts, the Sony camera has very high accuracy and no obvious color shifts. The reproduction of saturated blues and reds is almost perfect. The greens do not extend to the fully saturated Rec. 2020 primary, but the Venice has the best green color reproduction that we have seen from any camera.

As was pointed out in the 8K Digital Camera Comparison at the GSCA confer-

ence in September 2018, the differences in these cameras' performance does not necessarily mean that some are better than others. Color response is simply another characteristic that cinematographers and producers must weigh, along with resolution, aspect ratio, size, weight, etc., when choosing a camera for a given application. For some shoots color accuracy may not be as important as one of these other factors; or a certain way of capturing colors, even if not perfectly accurate, may be aesthetically more desirable.

It is my hope that these results will help GS filmmakers choose the tools best suited to their needs. I welcome any questions or comments about the test methodology and results.

Pawel Achtel has been involved in underwater cinematography for almost 30 years and 3D cinematography for giant-screen cinema for almost ten. He is a member of the Australian Cinematographers Society and an award-winning inventor and manufacturer of underwater cinematography equipment through his company Achtel Pty. Ltd. He can be contacted at pawel.achtel@24x7.com.au

(from **FILMS** on page 8)

Asteroid Impact

Produced and distributed by Imax Corporation. Directed by **W.D. Hogan**, produced by **Jini Durr** and **Phil Groves**, photographed by **Sean MacLeod Phillips**, and written by Phil Groves. Executive producers: **Anna Chi** and **Phil Groves**. Cast: **Len J. Phillips**, **Steve Tsang**, and **Bernadette Janssen**. Release: Fall.

"**Asteroid Impact** will reveal the origins of asteroids and the effects of previous Earth impacts. Delve into how these celestial bodies have shaped life on primitive Earth and the threat they pose to our planet today. Learn how we monitor them in order to stay out of their deadly path. Through the eyes of scientists tasked with keeping watch over our planet, see the devastating effects of a hypothetical asteroid impact portrayed on a grand scale as never seen before. The ways we might prevent a cosmic collision are also explored. This new IMAX documentary will

make clear it's not a question of *if* an asteroid will strike our planet again, but *when*."

Back From the Brink

Produced by **Sean Casey Productions** and distributed by Cosmic Picture. Directed and photographed by **Sean Casey**, produced by **Jen Casey** and Sean Casey, and written by Mose Richards. Release: Fall.

"**Back from the Brink**, from award-winning giant screen director Sean Casey, is an immersive film that will explore extraordinary true stories of animals rescued from the brink of extinction. Audiences will meet California's endearing Channel Island fox, the smallest canid in the world, imperiled by the introduction of golden eagles to their only habitat. We will witness the stunning migration of the Christmas Island red

crabs, thinned dangerously by the crazy ant invasion. And, finally, we journey to Yunnan, China, to find the enigmatic golden monkey, high on the most-endangered primates list, living in one of the most biodiverse and remote regions of the world. **Back from the Brink**, with real and inspiring conservation stories, will renew your hope that our threatened planet and all its inhabitants can be saved."



Back from the Brink

Bookings: January 2019 by Film

544 bookings of 87 films in 147 theaters

These listings do not include Hollywood films shown in multiplex IMAX theaters. Those films are listed when they are shown in non-multiplex theaters, and conversely, non-Hollywood giant-screen films showing on multiplex IMAX screens are also listed.

Listings shown in **bold face** below are new or updated listings. The rest are unchanged from the previous

month's issue.

The data on the following pages are ***not*** warranted to be comprehensive or accurate in every detail, despite our best efforts to make them so. They have been compiled from theater surveys, distributors, the Web, and other sources.

We will make every effort to improve the thorough-

ness, and accuracy of these data. If your theater or film is not shown here, please get in touch with us to update our listings.

Where a date is not shown, it means that no date was provided by the source or, in the case of a closing date, that no date has been set, or that the run is indefinite.

The key to film abbreviations is on page 17.

Film	Theater	Open	Close	Film	Theater	Open	Close	Film	Theater	Open	Close
ACGOTS	Corpus Christi Lex	6/17/16		ConqOTS	Edmonton TWS	6/30/18	6/30/19	G3DNW	Hastings	3/17/13	6/30/19
	Pensacola NAM	5/26/17	6/30/19		San Diego RHF	7/1/14	6/30/19		Lehi	1/19/19	1/19/20
	Toronto OP	6/1/18			Austin TSHM	3/1/18	2/28/19		Louisville KSC	9/30/12	6/30/19
AfricAdv	Washington NASM	5/26/17		D-Day	Fort Worth	6/10/17	9/30/19	GBR3D	Peoria RM	4/1/16	6/30/19
	Katowice CC		9/30/19		Toronto OSC	2/24/18	2/23/19		Portland OMSI ET	1/7/14	6/30/19
	Krakow CC		9/30/19		Columbus COSI	3/9/18	3/9/19		Raleigh	10/19/17	6/30/19
AirRacer	Lodz CC		9/30/19	DinoAliv	Columbus GA NIM	1/31/18	1/31/19	GCA	Richmond SMV	5/1/13	6/30/19
	Poznan CC		9/30/19		Dearborn THF	2/27/17	2/28/19		Sacramento Imx	8/13/13	5/31/19
	Warsaw CC		9/30/19		Gatineau	9/15/15	3/31/19		Saint Augustine	1/1/13	6/30/19
Alaska	Wroclaw CC		9/30/19	Dolphins	Hampton VASC	10/17/18	10/17/19	GWS	San Diego RHF	10/12/12	6/30/19
	Hutchinson	1/19/18	1/31/19		Hutchinson	12/31/17	1/31/20		Tallahassee CLC	1/18/13	6/30/19
	Shijiazhuang HST	1/1/17	1/1/19	DreamBig	Raleigh	5/23/14	2/1/19	Hutchinson	Victoria DCI	4/5/13	6/30/19
AmazAdve	Austin TSHM	9/1/18	8/15/19		Seattle PSC 2	3/29/14	6/30/19		Edmonton TWS	10/22/18	1/24/19
	Beijing 3D CSTM	2/6/18	2/15/19		Washington NASM	5/22/17	5/22/19	HumbpWha	Hastings	2/10/15	6/10/19
	Charlotte DP	5/1/17	6/30/19	Garden City	Fort Worth	7/15/16	9/30/19		Orlando SC	7/5/14	1/4/19
AMJ	Chicago MSI	5/26/17	6/30/19		Houston MNS	7/1/17	6/30/19		Prague CC	5/22/14	5/21/19
	Cleveland	1/9/18	6/30/19	Hastings	Kansas City Sci	7/3/18	7/31/19	HumbpWha	Salt Lake City Clark	11/1/18	10/31/19
	Columbus COSI	1/10/18	6/30/19		Portland OMSI ET	1/26/18	1/31/19		Atlanta FMNH	12/15/18	12/14/19
AMM	Daping STM	2/16/18	2/15/19	Hastings	Syracuse MOST	10/5/18	1/31/19	HumbpWha	Beijing Dome CSTM	11/1/99	12/19
	Dearborn THF	3/2/18	2/28/19		Fort Worth	5/28/16	9/30/19		Boston MOS	7/5/18	7/4/19
	Edmonton TWS	1/19/18	6/30/19	Hastings	Gatineau	7/9/18	3/20/20	HumbpWha	Cleveland	8/1/18	7/31/19
AMM	Erie	6/30/18	6/30/19		Austin TSHM	10/1/17	9/1/19		Edmonton TWS	7/1/18	6/30/19
	Gatineau	12/16/17	3/2/19		Baltimore MSC	2/17/17	6/30/19	HumbpWha	Fort Lauderdale	10/5/18	10/4/19
	Guayaquil	4/16/18	2/28/19	Hastings	Birmingham AL	2/28/19	2/28/19		Harrisburg	7/6/18	7/5/19
AMM	Hampton VASC	3/31/18	3/30/19		Bradford	1/1/18	12/31/19	HumbpWha	Jersey City	11/23/18	11/22/19
	Houston MNS	4/21/17	12/31/19		Chantilly	2/17/17	2/16/20		Saint Augustine	8/20/18	8/19/20
	Indianapolis Imx	9/8/17	6/7/19	Hastings	Charlotte DP	8/26/17	12/31/19	HumbpWha	Salt Lake City Clark	7/21/18	3/29/19
AMM	Kuwait SOCK	6/14/18	12/31/19		Cleveland	3/17/17	2/18/19		San Diego RHF	7/5/18	7/5/19
	Melbourne MV	9/15/17	9/13/19		Edmonton TWS	2/17/17	2/28/19	HumbpWha	Grand Canyon DCI	1/26/18	1/31/19
	Orlando SC	2/24/18	2/23/19	Hastings	Fort Lauderdale	2/17/17	2/17/19	HumbpWha	Grand Rapids Cel	9/1/18	7/31/19
AMM	Peoria RM	6/20/18	1/19/19		Fort Worth	2/17/17	6/30/19		Portage Cel	9/1/18	7/31/19
	Phoenix ASC	8/16/18	2/15/19	Hastings	Garden City	12/1/17	12/31/19	HumbpWha	Richmond SMV	6/1/16	7/31/19
	Pittsburgh CSC	1/11/17	6/30/19		Grand Rapids Cel	7/15/17	7/31/19		Charlotte DP	11/1/17	11/1/19
AMM	Portland OMSI ET	2/16/18	2/15/19		Guayaquil	4/15/18	4/15/19	HumbpWha	Beijing Dome CSTM	1/14/19	1/14/19
	Regina	2/16/18	2/15/19	Hastings	Hampton VASC	2/17/17	2/17/19		Boston NEA	5/31/13	6/30/19
	Richmond SMV	5/1/18	4/30/19		Harrisburg	2/18/17	2/18/19	HumbpWha	Gatineau	10/7/16	3/31/20
AMM	Sacramento Imx	9/8/17	6/30/19	Hastings	Hastings	10/19/17	10/1/19		Hague	4/1/18	4/30/19
	Seattle PSC 2	11/10/17			Houston MNS	2/17/17	12/31/19		Hutchinson	7/1/17	12/31/19
	Shanghai 3D STM	8/1/18	8/1/19	Hastings	Jersey City	2/17/17	12/31/19	HumbpWha	Portland OMSI ET	1/26/18	1/31/19
AMM	Sioux Falls	12/2/17	6/30/19		Lansing Cel	6/30/17	7/31/19		Sacramento Imx	2/20/15	6/30/19
	Tallahassee CLC	4/28/17	6/30/19		London SM	9/4/17	8/31/19	HumbpWha	San Jose Tech	10/31/18	1/31/20
	Vancouver TWS	12/22/17	6/30/19	Hastings	Lubbock SS	2/2/18	2/1/19		San Simeon DCI	8/17/96	
AMM	Victoria DCI	4/14/17	6/30/19		Memphis Pink	2/10/18	3/2/19		Hampton VASC	9/7/18	12/31/19
	Albuquerque NMMNH	7/16/18	7/15/19	Hastings	Monterrey Pap	2/15/18	2/1/19	HumbpWha	Lansing Cel	7/31/18	7/31/19
	Chandigarh	6/15/18	6/14/20		Moscow Kin	9/10/17	6/1/19		Parker	7/29/18	7/21/19
AMM	Chattanooga TA	6/22/18	6/21/19	Hastings	Mout Pleasant Cel	7/15/17	7/31/19	HumbpWha	Apple Valley Imx	7/12/18	7/12/19
	Cleveland	3/23/18	3/22/19		Muskegon Cel	7/15/17	7/31/19		Baltimore MSC	7/1/15	7/12/19
	Columbus COSI	5/25/18	5/24/19	Hastings	Philadelphia FI	3/1/18	2/28/19	HumbpWha	Boston MOS	2/13/15	12/31/19
AMM	Dearborn THF	2/16/18	2/15/19		Pittsburgh CSC	11/17/17	12/31/19		Grand Rapids Cel	5/2/18	7/31/19
	Denver MNS	2/16/18	2/15/19		Portage Cel	6/30/17	7/31/19	HumbpWha	Indianapolis Imx	8/17/16	6/5/19
	Fort Worth	2/16/18	2/15/19	Hastings	Portland OMSI ET	2/17/17	3/1/19		Keelung NMMST	7/1/18	6/30/19
AMM	Galveston	3/1/18	2/18/19		Regina	2/17/17	12/31/19		Leon Exp	12/1/18	5/31/19
	Hague	7/3/18	7/2/19	Hastings	San Diego RHF	4/10/17	4/1/19	HumbpWha	Milwaukee	2/1/18	1/30/19
	Hampton VASC	10/1/18	9/30/19		San Jose Tech	2/17/17	11/1/19		Portage Cel	7/1/18	7/31/19
AMM	Hastings	6/21/18	6/20/19		Seattle PSC 2	2/17/17	6/30/19	HumbpWha	Richmond SMV	3/14/15	7/31/19
	Indianapolis Imx	6/8/18	6/7/19	Hastings	Singapore DC	10/1/18	4/1/19		Sacramento Imx	8/19/16	10/24/19
	Lubbock SS	7/6/18	7/6/19		Sioux Falls	6/2/17	6/30/19	HumbpWha	Sudbury	9/24/15	6/30/19
AMM	Lucerne	9/1/18	8/10/19		Stockholm	3/15/18	6/30/19		Vancouver TWS	10/9/15	6/30/19
	Memphis Pink	8/11/18	8/10/19	Hastings	Sudbury	2/17/17	6/30/19		Hampton VASC	6/15/17	6/14/19
AMM	Mexicali	9/22/18	3/21/19		Thessaloniki	10/28/17	10/2/19	HumbpWha	Indianapolis Imx	2/9/18	2/8/19
	Mexico City Pap	3/15/18	3/14/19		Valencia Spn	4/1/18	6/30/19		Port of Spain	4/26/18	4/25/19
	Montreal SC	5/18/18	5/17/19	Hastings	Victoria DCI	3/17/17	12/31/19	HumbpWha	Victoria DCI	2/1/18	1/31/19
AMM	Moscow Kin	4/14/18	4/14/19		Washington NASM	2/16/20	2/16/20		Garza Garcia	9/15/14	10/31/19
	Paris Geo	3/7/18	3/6/19		Davenport Put	2/8/15	3/9/19	HumbpWha	Atlanta FMNH	9/30/17	9/30/19
AMM	Peoria RM	2/16/18	2/15/19		Dearborn THF	3/25/16	1/31/19		Columbus COSI	2/2/18	9/30/19
	Raleigh	9/1/18	8/31/19	Hastings	Edmonton TWS	9/14/18	9/23/19		Lehi	9/29/17	9/30/19
AMM	Regina	5/11/18	5/12/19		McMinnville	6/16/16	6/16/16	HumbpWha	Phoenix ASC	10/19/18	10/31/19
	Saint Augustine	5/31/18	5/31/19		Portland OMSI ET	1/15/18	4/28/19		Victoria DCI	11/16/18	11/30/19
	San Jose Tech	2/17/18	2/16/19	Hastings	Atlanta FMNH	6/21/18	6/30/19	HumbpWha	Hutchinson USSRC	5/5/18	4/30/19
AMM	Seattle PSC 2	9/7/18	9/6/19		Erie	4/1/18	3/31/19		Sioux Falls	5/4/18	4/30/19
	Tallahassee CLC	2/16/18	2/15/19		Orlando SC	4/1/18	4/30/19	HumbpWha	Columbus GA NIM	10/18/13	2/7/19
AMM	Tijuana	3/1/18	2/28/19	Hastings	Columbus COSI	4/1/17	3/30/19		Galveston	11/12/15	4/22/19
	Valencia Spn	7/1/18	6/3/19		Athens Eug	10/1/18	2/28/19		Jersey City	9/1/18	8/31/20
AMM	Vancouver TWS	3/17/18	3/16/19		Chandigarh	6/15/18	6/14/20	HumbpWha	Sacramento Imx	9/15/14	10/31/19
	Victoria DCI	3/9/18	3/8/19	Hastings	Gatineau	7/30/18	3/30/20		San Jose Tech	3/15/15	6/20/19
	Melbourne MV	7/11/16			Calgary TS	9/1/17	9/1/20		Speyer Dome	12/12/13	12/11/19
AMM	Stockholm	10/1/17	10/1/19	Hastings	Davenport Put	10/15/16	10/14/19	HumbpWha	Tijuana	4/1/15	3/14/19
	Galveston	11/17/18	11/30/19		Edmonton TWS	6/2/17	6/1/19		Chattanooga TA	1/31/18	1/31/19
	Portland OMSI ET	1/26/18	1/31/19	Hastings	Garza Garcia	3/1/18	6/30/19	HumbpWha	Port of Spain	1/1/18	2/28/19
AMM	Saint Felicien	4/1/18	11/30/19		Huntsville USSRC	4/1/18	4/1/19		Portland OMSI ET	3/1/17	2/28/19
	Gatineau	4/24/18	3/30/20		Kansas City Sci	10/15/16	10/14/19	HumbpWha	Edmonton TWS	12/26/13	6/30/19
AMM	Atlanta FMNH	1/11/18	1/10/20	Hastings	Kuwait SOCK	11/1/17	4/30/19		Hague		6/30/19
	Garden City	5/19/17	6/18/20		Memphis Pink	3/24/17	8/31/19	HumbpWha	Columbus GA NIM	12/4/15	4/30/19
	Charlotte DP	11/24/18	11/23/19		Philadelphia FI	2/11/17	2/11/19		Hampton VASC	2/21/15	2/20/19
AMM	Chattanooga TA	3/16/18	3/15/19	Hastings	Sacramento Imx	2/24/17		HumbpWha	Indianapolis Imx	8/31/18	8/30/19
	Dearborn THF	8/1/18	7/31/19		Saint Augustine	10/15/16	10/14/19		KSC 1	2/27/15	
	Erie	8/4/18	6/30/19	Hastings	Tallahassee CLC	5/19/17	5/1/20	HumbpWha	Portland OMSI ET	3/20/15	3/21/

Film	Theater	Open	Close	Film	Theater	Open	Close	Film	Theater	Open	Close
MOC	Melbourne MV	1/30/17	1/28/19	Lucerne		6/1/18	6/30/19	TTA	Phoenix ASC	12/1/18	12/31/19
	Alamogordo	3/31/18	3/31/19		Melbourne MV	3/21/18	3/31/19		San Diego NHM	1/3/18	3/31/19
	Columbus COSI	4/1/17	3/31/19		Milwaukee	6/14/18	6/30/19		Glasgow	4/10/15	4/10/19
	Gatineau	1/10/18	1/31/19		Montreal SC	6/1/18	6/30/19		Grand Rapids Cel	6/2/18	7/31/19
	Sioux Falls	1/25/18	1/31/19		New Orleans	3/30/18	3/31/19		Moscow Kin	11/1/16	12/1/19
MOE	Sudbury	9/7/17	10/31/19	Norwalk MA	10/5/18	10/31/19	TurtOdys	Portage Cel	6/1/18	7/31/19	
	Los Angeles CSC	3/24/18	1/6/19		Omaha Zoo	3/30/18		3/31/19	Apple Valley Imx	11/9/18	5/8/19
MOTUW	Portland OMSI ET	1/06/19	1/27/19	Orlando SC	4/16/18	4/30/19		Beijing 3D CSTM	1/1/19	12/31/19	
	Bradford	4/12/14	6/30/19		Peoria RM	9/28/18		9/30/19	Hastings	9/13/18	5/30/19
	Copenhagen TBP	6/19/14	6/18/19	Philadelphia FI	5/1/18	5/1/19		Lehi	7/13/18	7/12/19	
	Davenport Put	2/1/14	1/31/19		Phoenix ASC	5/4/18	5/31/19	Melbourne MV	1/19/19	12/31/19	
	Dubai Vox	2/1/17	3/30/19	Portland OMSI ET	4/20/18	4/30/19	Port of Spain	9/27/18	9/26/19		
	Mumbai Ino	1/1/18	12/31/19		Richmond SMV	6/1/18	6/30/19	Sacramento Imx	9/21/18	3/20/19	
	Poitiers Imax 3D	2/1/16	1/31/19	San Diego RHF	3/1/18	3/31/19	Seattle PSC 2	12/7/18	5/31/19		
	Tallahassee CLC	3/1/17	3/20		Seattle PSC 2	4/20/11	4/30/19	Sioux Falls	9/1/18	1/31/19	
MounQues	Milwaukee	10/1/18	9/30/19	Tijuana	4/1/18	4/30/19	TurtTale	Sudbury	12/7/18	12/6/19	
	Baton Rouge LASM	3/1/17	3/31/19		Toronto OSC	6/15/18		6/30/19	Virginia Beach AMSC	6/30/18	12/31/19
Mummies	Melbourne MV	9/22/17	9/30/19	Victoria DCI	7/1/18	7/31/19		Al Khobar	11/1/18	1/31/19	
	Peoria RM	10/16/18	10/31/20		Salt Lake City Clark	5/19/18		3/29/19	Katowice CC		9/30/19
	Portland OMSI ET	1/26/18	3/31/19	Milwaukee	10/23/17	6/20/19		Krakow CC		9/30/19	
	Sacramento Imx	1/1/17	6/30/19		Kuwait SCK	12/10/18	2/28/19	Lodz CC		9/30/19	
	Vancouver TWS	7/1/17	6/30/19	Valencia Spn	1/7/19	6/30/20	Poznan CC		9/30/19		
	Niagara Can DCI	7/1/86			Dubai Vox	2/1/17	1/30/19	Warsaw CC		9/30/19	
Niagara	Niagara NY DCI	5/1/07		Louisville KSC	7/4/14	7/20/20	Wroclaw CC		9/30/19		
	Albuquerque NMMNH	4/2/18	4/1/19		Vancouver TWS	7/1/17	6/30/19	Gatineau	7/30/18	3/30/20	
NPA	Baltimore MSC	7/1/18	6/30/19	Columbus COSI	1/15/16	1/31/19	Philadelphia FI	10/13/18	10/1/19		
	Carnival Horizon	4/1/18	10/5/19		Dearborn THF	3/25/16	1/31/19	Albuquerque NMMNH	10/15/18	10/14/19	
	Columbus COSI	3/8/18	3/8/19	Hampton VASC	6/20/15	6/19/19	Boston MOS	11/9/18			
	Columbus GA NIM	4/1/16	5/9/19		Hutchinson	5/20/16	6/12/19	Cincinnati MC	12/21/18		
	Edmonton TWS	2/12/16	10/15/19	McMinville	11/6/15	5/30/19	Davenport Put	11/8/18	11/8/19		
	Fort Worth	2/12/16	5/31/19		Mumbai Ino	1/1/18	1/1/19	Denver MNS	1/24/19	1/23/20	
	Grand Canyon DCI	3/16/18	3/8/19	Portland OMSI ET	3/15/18	3/17/19	Edmonton TWS	10/12/18	10/11/19		
	Grand Rapids Cel	10/1/18	7/31/19		Regina	9/1/18	9/1/19	Houston MNS	11/9/18		
	Hampton VASC	4/29/16	4/29/19	Victoria Beach AMSC	10/26/18	10/28/19	Kagoshima	12/18	12/19		
	Harrisburg	7/1/16	7/1/19		Dubai Vox	2/1/17	1/30/19	Lehi	10/13/18	10/12/19	
	Hastings	6/9/16	7/1/19	Portland OMSI ET	1/15/14	4/28/19	Los Angeles CSC	1/16/19	7/15/19		
	Hong Kong SM	9/8/18	2/28/19		Copenhagen TBP	2/9/17	2/9/19	Portland OMSI ET	10/13/18	10/12/19	
	Houston MNS	7/1/18	12/31/19	Paris Geo	1/30/18	1/29/19	Salt Lake City Clark	1/16/19	2/15/20		
	Jersey City	2/12/16	6/24/19		Salt Lake City Clark	2/16/18	2/15/19	Seattle PSC 2	1/14/19	5/31/19	
	Lansing Cel	10/1/18	7/31/19	Victoria DCI	9/22/17	12/31/19	Vancouver TWS	11/17/18	9/30/19		
	London BFI Ode	2/12/16	3/1/19		Chicago MSI	5/25/18	5/25/19	New Orleans	7/1/17	6/30/19	
	Mexicali	4/22/18	4/23/19	Copenhagen TBP	7/15/18	7/15/19	Apple Valley Imx	2/1/16	6/30/19		
	Mobile	5/26/18	5/25/19		Hong Kong SM	1/1/19		Charlotte DP	9/19/18	9/30/19	
	Moscow Kin	9/17/16	12/1/19	Salt Lake City Clark	11/10/18	11/9/19	Davenport Put	9/30/19	9/30/19		
	Pittsburgh CSC	2/12/16	12/31/19		Victoria DCI	9/1/18		Houston MNS	6/1/16	6/30/19	
	Portage Cel	10/1/18	7/31/19	Huntsville USSRC	3/1/16	2/1/19	Las Palmas	7/15/18	7/31/19		
	Portland OMSI ET	2/12/16	3/1/19		Hutchinson	9/8/17	3/30/19	Lucerne	9/21/17	9/30/19	
	Richmond SMV	4/10/16	4/30/19	Singapore SC	6/1/18	6/1/19	Melbourne MV	1/4/18	1/31/19		
	Saint Louis SC	2/12/16	3/31/19		Chicago MSI	5/31/18	5/31/19	Phoenix ASC	1/2/18	3/31/19	
	San Diego NHM	12/1/18	8/31/19	Davenport Put	7/1/14	6/30/19	Portland OMSI ET	1/26/18	1/31/19		
	San Jose Tech	2/12/16	1/11/19		Fort Worth	3/1/17	9/30/19	Richmond SMV	2/1/17		
	Sudbury	2/12/16	6/30/19	Louisville KSC	2/1/16	7/31/19	Tallahassee CLC	5/15/16	6/30/19		
	Valencia Spn	10/7/16	6/30/19		Portland OMSI ET	1/26/18	1/31/19	New Orleans	7/1/17	6/30/19	
	Vancouver TWS	2/12/16	6/30/19	Davenport Put	9/25/15	6/30/19	Cleveland	6/15/18	6/1/19		
	Yellowstone	5/1/16	2/1/19		Gatineau	12/23/16	3/31/19	Charlotte DP	2/18/18	2/28/19	
OOBP	Al Khobar	8/15/18	8/30/19	Harrisburg	2/1/18	2/28/19	Galveston	11/17/18	11/30/19		
	Atlanta FMNH	8/3/18	8/30/19		Louisville KSC	9/21/17	9/30/19	Gatineau	3/15/18	3/31/19	
	Birmingham AL	9/30/18	9/30/19	Melbourne MV	9/22/17	9/30/19	Saint Félicien	4/1/18	11/30/19		
	Boston NEA	3/20/18	3/31/19		Memphis Pink	11/17/18	5/22/20	San Diego RHF	12/7/18	12/31/19	
	Charlotte DP	6/1/18	6/30/19	Peoria RM	6/30/18	6/30/20	Vancouver TWS	7/1/17	6/30/19		
	Chattanooga TA	3/1/18	3/31/19		Pittsburgh CSC	11/15/17	11/30/19	Houston MNS	4/1/18	5/31/19	
	Chicago MSI	3/16/18	3/31/19	Poitiers Imax	4/1/16	4/30/19	Bradford	9/16/15	9/30/19		
	Columbus COSI	9/22/18	9/30/19		Sioux Falls	7/1/17	6/30/19	Edmonton TWS	5/1/15	5/31/19	
	Davenport Put	3/16/18	3/31/19	Sudbury	6/24/16	5/31/19	Erie	9/15/16	12/15/19		
	Denver MNS	5/1/18	5/31/19		Tallahassee CLC	7/21/19	7/21/19	Melbourne MV	9/22/17	9/30/19	
	Galveston	5/1/18	5/31/19	Sacramento Imx	5/20/16	6/30/19	Peoria RM	6/30/18	6/30/19		
	Hague	7/13/18	7/31/19		Sioux Falls	7/1/17	6/30/19	Portland OMSI ET	1/26/18	1/31/19	
	Houston MNS	3/30/18	3/31/19	Atlanta FMNH	6/15/17	6/30/19	Tallahassee CLC	4/19/16	7/31/19		
	Jersey City	6/25/18	6/30/19		Davenport Put	2/1/15	6/30/19	Valencia Spn	7/1/16	3/31/19	
	Kuwait SCK	8/20/18	5/31/19	Hutchinson	7/1/17	6/30/19					
	Lehi	3/16/18	3/31/19		Louisville KSC	6/30/18	7/31/19				
	London BFI Ode	9/7/18	6/30/19	Melbourne MV	9/22/17	9/30/19					
	Louisville KSC	8/15/18	6/15/19		Milwaukee	6/14/18	6/30/19				
	Lubbock SS	5/1/18	5/31/19	New Orleans	7/1/17	6/30/19					

January 2019 by Theater

Theater	Film	Open	Close	Theater	Film	Open	Close	Theater	Film	Open	Close
Al Khobar	OoBP	8/15/18	8/30/19	Chattanooga TA	BackWild	11/24/18	11/23/19	Dayton Dearborn THF	FlyMons	3/27/14	6/1/20
	TurtTale	11/1/18	1/31/19		DreamBig	8/26/17	12/31/19		FOTB	2/15/13	6/30/19
	MOC	3/31/18	3/31/19		FlyMons	5/26/18	12/31/19		L&C	4/26/20	
	Albuquerque NMMNH	AMJ	7/15/18		GlobSoun	11/1/17	1/1/19		LastReef	7/1/15	6/30/19
Apple Valley Imx	NPA	4/2/18	4/1/19		OoBP	6/1/18	6/30/19		LITAOA	7/1/16	10/1/20
	Volcanoes	10/15/18	10/14/19		WildAfr	9/19/18	9/30/19		MOTUW	2/1/14	1/31/19
	HumpbWWha	7/12/18	7/12/19		WOTA	2/18/18	2/28/19		OoBP	3/16/18	3/31/19
	TurtOdys	1/19/18	5/8/19		AMJ	6/22/18	6/21/19		TA	7/1/14	6/30/19
Athens Eug Atlanta FMNH	WildAfr	2/1/16	6/30/19		BackWild	3/16/18	3/15/19		TinyGian	9/25/15	6/30/19
	Everest	10/1/18	2/28/19		JMCSO	1/31/18	1/31/19		TOTIA	2/1/15	6/30/19
	AsterME	1/1/18	1/10/20	OoBP	3/1/18	3/31/19	Volcanoes	11/9/18	11/8/19		
	EarthFli	6/21/18	6/30/19	Chicago MSI	AmazAdve	5/26/17	6/30/19	WildAfr	8/20/17	9/30/19	
Atlantic City Austin TSHM	FOTB	1/12/18	5/2/19	OoBP	3/16/18	3/31/19	FightPll	3/1/13			
	GBR3D	12/15/18	12/31/19	SOE	5/25/18	5/25/19	AmazAdve	3/2/18	2/28/19		
	MA	9/30/17	2/8/19	TA	5/31/18	5/31/19	AMJ	2/16/18	2/15/19		
	OoBP	2/9/18	2/8/19	Cincinnati MC Cleveland	Volcanoes	12/21/18		BackWild	8/1/18	7/31/19	
	OoBP	8/3/18	8/30/19	AmazAdve	1/9/18	6/30/19	D-Day	2/27/17	2/28/19		
	TOTIA	6/15/17	6/30/19	AMJ	3/23/18	3/22/19	DSC	3/25/16	1/31/19		
	GBR3D	7/1/18	3/1/19	DreamBig	3/17/17	2/18/19	RobotsNG	3/25/16	1/31/19		
	AmazAdve	9/1/18	8/15/19	GBR3D	8/1/18	7/31/19	Denver MNS	AMJ	2/16/18	2/15/19	
	ConqOTS	3/1/18	2/28/19	WM	6/15/18	6/1/19	OoBP	9/1/18	9/30/19		
	Baltimore MSC	DreamBig	10/1/17	9/1/19	AmazAdve	1/10/18	6/30/19	Volcanoes	1/24/19	1/23/20	
DreamBig		2/17/17	6/30/19	AMJ	5/25/18	5/24/19	Bugs	2/1/17	1/30/19		
HumpbWWha		7/1/18	1/23/19	Bug	9/15/14	6/30/19	MOTUW	2/1/17	3/30/19		
NPA		7/1/18	6/30/19	D-Day	3/9/18	3/9/19	PTJH	2/1/17	1/30/19		
Baton Rouge LASM Beijing 3D CSTM	Mummies	3/1/17	3/31/19	Electrop	4/1/17	3/30/19	SeaMonst	2/1/17	1/30/19		
	AmazAdve	2/6/18	2/15/19	FlyMons	7/17/17	7/30/19	AmazAdve	1/19/18	6/30/19		
	TurtOdys	1/1/19	1/23/19	FOTB	3/1/14	6/30/19	Bugs	6/30/18	6/30/19		
	Greece	1/15/18	1/14/19	IncrPred	9/22/18	9/30/19	DreamBig	3/25/17	2/28/19		
Beijing Dome CSTM Birmingham AL	DreamBig	2/17/17	2/28/19	JTTSP	11/26/16	3/8/19	DSC	9/14/18	9/23/19		
	OoBP	9/30/18	9/30/19	MOC	4/1/17	3/31/19	ExtrWeat	6/2/17	6/1/19		
	GBR3D	7/5/18	7/4/19	NPA	3/8/18	1/4/19	FlyMons	1/4/16	1/4/19		
	HumpbWWha	2/13/15	12/31/19	OoBP	9/22/18	9/30/19	FOTB	12/26/13	6/30/19		
Boston MOS	Volcanoes	11/9/18		RobotsNG	1/15/16	1/31/19	G3DNW	10/22/18	1/24/19		
	GWS	5/31/13	6/30/19	D-Day	1/31/18	1/31/19	GBR3D	7/1/18			
	OoBP	3/20/18	3/31/19	Jerusale	10/18/13	2/7/19	JTM	12/26/13	6/30/19		
	DreamBig	1/1/18	1/23/19	JTS	12/4/15	4/30/19	JTTSP	1/16/15			
Bradford	MOTUW	4/12/14	6/30/19	NPA	4/1/16	5/9/19	NPA	2/12/16	10/15/19		
	WWDP3D	9/16/15	9/30/19	MOTUW	6/19/14	6/18/19	Volcanoes	10/12/18	10/11/19		
	Calgary TS	ExtrWeat	9/1/17	SFLS	2/9/17	2/9/19	WWDP3D	5/1/15	5/31/19		
	Carnival Horizon Chandigarh	NPA	4/1/18	SOE	5/15/18	7/15/19	AmazAdve	6/30/18	6/30/19		
Chantilly	AMJ	6/15/18	6/14/20	Corpus Christi Lex	ACGOTS	6/17/16	BackWild	8/4/18	6/30/19		
	Everest	6/15/18	6/14/20	FightPll	5/12/12		EarthFli	4/1/18	3/31/19		
	DreamBig	2/17/17	2/16/20	AmazAdve	2/16/18	2/15/19	WWDP3D	9/15/16	12/15/19		
	FightPll	12/10/04		Bugs	10/1/12	4/28/20	BackWild	6/1/18	5/31/20		
Charlotte DP	LITAOA	5/1/15		DSC	9/6/15		DreamBig	2/17/17	2/17/19		
	AmazAdve	5/1/17	6/30/19	ExtrWeat	10/15/16	10/14/19	GBR3D	10/5/18	10/4/19		

Theater	Film	Open	Close	Theater	Film	Open	Close	Theater	Film	Open	Close
Fort Worth	AMJ	2/16/18	2/15/19					Richmond SMV	AmazAdve	5/1/18	4/30/19
	BackWild	11/2/18	5/30/19		FOTB	9/30/12	6/30/19		FOTB	5/1/13	6/30/19
	CRA	6/10/17	9/30/19		LastReef	2/8/14	6/30/19		GCA	6/1/16	7/31/19
	DinoAliv	7/15/16	9/30/19		OOBP	8/15/18	6/15/19		HumpbWha	3/1/15	7/31/19
	Dolphins	5/28/16	9/30/19		PTJH	7/4/14	7/30/20		NPA	4/10/16	4/30/19
	DreamBig	2/17/17	6/30/19		TA	2/1/16	7/31/19		OOBP	6/1/18	6/30/19
	NPA	5/12/16	5/31/19		TinyGian	9/21/17	9/30/19		WildAfr	2/1/17	6/30/19
Galveston	TA	3/1/17	9/30/19	Lubbock SS	AMJ	7/8/18	7/8/19	Sacramento Imx	AmazAdve	9/8/17	6/30/19
	AMJ	3/1/18	9/30/19		BackWild	1/18/19	2/1/19		ExtrWeat	2/2/17	6/30/19
	AOTE	11/17/18	11/30/19		OOBP	2/2/18	5/31/19		FOTB	8/13/13	5/31/19
	BackWild	8/21/18	2/28/19		OOBP	5/1/18	5/31/19		GWS	2/20/15	6/30/19
	Jerusale	11/12/15	4/22/19	Lucerne	AMJ	9/1/18	9/1/19		HumpbWha	8/19/16	10/24/19
	OOBP	5/1/18	5/31/19		OOBP	6/1/18	6/30/19		Jerusale	9/15/14	10/31/19
Garden City	WOTP	11/17/18	1/30/19		WildAfr	5/21/11	9/30/19		LastReef	2/20/16	6/30/19
	AsterME	6/18/20	9/24/19	McMinnville	DSC	6/16/16			Mummies	1/1/17	6/30/19
	BackWild	9/25/18	9/24/19		FightPil	3/23/12			TLR	5/20/16	6/30/19
Garza Garcia	DreamBig	12/1/17	12/31/19		LITAOA	4/10/15	5/30/19	Saint Augustine	TurtOdys	9/2/18	3/20/19
	ExtrWeat	3/1/18	6/30/19		LOF	3/23/12			AMJ	6/1/18	5/30/19
	JMCSC	11/1/18	2/28/19		RobotsNG	11/8/15	5/30/19		ExtrWeat	10/15/16	10/14/19
Gatineau	AmazAdve	12/16/17	3/2/19	Melbourne MV	AmazAdve	9/15/17	9/13/19		FOTB	1/18/13	6/30/19
	Arabia	4/24/18	3/30/20		AMMM	7/1/16			GBR3D	8/20/18	8/19/20
	BackWild	6/1/18	5/31/19		MA	1/30/17	1/28/19	Saint Félicien	L&C		6/14/19
	D-Day	9/1/15	3/31/19		Mummies	9/22/17	9/30/19		AOTE	4/1/18	11/30/19
	Dolphins	7/9/18	3/20/20		OOBP	3/21/18	3/31/19		WOTA	4/1/18	11/30/19
	Everest	7/30/18	3/30/20		TinyGian	9/22/17	9/30/19	Saint Louis SC	NPA	2/12/16	3/31/19
	FOTB	10/5/12	6/30/19		TOTIA	9/22/17	9/30/19	Saint Paul SMM	LITAOA	10/12/18	3/10/19
	GWS	10/7/16	3/31/20		TurtOdys	1/19/19	12/31/19	Salt Lake City Clark	G3DNW		10/31/19
	MOC	1/10/18	1/31/19		WildAfr	1/4/18	1/31/19		GBR3D	7/21/18	3/29/19
	TinyGian	11/23/16	3/30/19		WWDP3D	9/22/17	9/30/19		Pandas	5/19/18	3/29/19
	VanGogh	7/30/18	3/30/20	Memphis Pink	AMJ	8/1/18	8/10/19		SFLIS	2/16/18	2/15/19
	WOTA	3/15/18	3/31/19		DreamBig	2/10/18	3/2/19		SOE	11/10/18	11/9/19
Glasgow	TTA	4/1/15	4/10/19		ExtrWeat	3/24/17	8/31/19	San Diego NHH	Volcanoes	1/16/19	2/15/20
Grand Canyon DCI	GC	11/1/99	12/19		JTTS	5/26/18	5/25/19		BackWild	8/1/18	2/28/19
	NPA	3/16/18	3/8/19		TinyGian	11/17/18	5/22/20		NPA	12/1/18	8/31/19
Grand Rapids Cel	DreamBig	7/15/17	7/31/19	Mexicali	AMJ	9/22/18	3/21/19	San Diego RHF	TOTIA	1/3/18	3/31/19
	GCA	9/1/18	7/31/19		NPA	4/22/18	4/23/19		Bugs	7/1/14	6/30/19
	HumpbWha	9/1/18	7/31/19		AMJ	3/15/18	3/14/19		DreamBig	3/10/17	4/1/19
	NPA	10/1/18	7/31/19	Mexico City Pap Milwaukee	HumpbWha	2/1/18	1/30/19		FOTB	10/12/12	6/30/19
	TTA	6/2/18	9/30/19		MountQuees	10/1/18	9/30/19		GBR3D	7/5/19	7/5/19
Guayaquil	AmazAdve	4/16/18	2/28/19		OOBP	6/14/18	6/30/19		OOBP	3/1/18	3/31/19
	DreamBig	4/16/18	4/15/19		Penguins	10/23/17	6/20/19	San Jose Tech	WOTA	12/7/18	12/31/19
Hague	AMJ	7/3/18	7/2/19		TOTIA	6/14/18	6/30/19		AMJ	2/17/18	2/16/19
	FON	10/4/12	10/3/20	Mobile	NPA	5/26/18	5/25/19		DreamBig	2/17/17	11/1/19
	GWS	4/1/18	2/20/19	Monterrey Pap	DreamBig	2/2/18	2/1/19		GWS	10/31/18	5/31/19
	JTM	6/30/19		Montreal SC	AMJ	5/18/18	5/17/19		Jerusale	3/15/15	6/20/19
	OOBP	7/13/18	7/31/19		OOBP	6/1/18	6/30/19		L&C	6/8/16	6/20/19
Hampton VASC	AmazAdve	3/31/18	3/30/19	Moscow Kin	AMJ	4/15/18	4/14/19		NPA	2/12/16	11/1/19
	AMJ	10/1/18	9/30/19		DreamBig	9/10/17	6/1/19	San Simeon DCI	ACBTDD	8/1/796	
	D-Day	10/17/18			NPA	9/17/18	11/10/17	Seattle PSC 2	AmazAdve	1/1/10/17	
	DreamBig	2/17/17	2/17/19	Mount Pleasant Cel	TTA	11/1/16	12/1/19		AMJ	9/7/18	9/6/19
	HidUniv	9/7/18	12/31/19	Mumbai Ino	DreamBig	7/15/17	7/31/19		D-Day	3/29/14	6/30/19
	Hurrican	6/15/17	6/14/19		MOTUW	1/1/18	12/31/19		DreamBig	2/17/17	6/30/19
	JTS	2/21/15	2/20/19		RobotsNG	1/1/18			OOBP	4/20/11	4/30/19
	NPA	4/23/16	4/23/19	Muskegon Cel	DreamBig	7/15/17	7/31/19		TurtOdys	12/7/18	5/31/19
	RobotsNG	6/20/15	6/19/19	New Orleans	OOBP	3/30/18	3/31/19		Volcanoes	1/4/19	5/31/19
Harrisburg	DreamBig	2/18/17	2/18/19		TOTIA	7/1/17	6/30/19	Shanghai 3D STM	AmazAdve	8/1/18	8/1/19
	FOTB	2/2/14	6/30/19		Wild Ocean	7/1/17	6/30/19	Shijiazhuang HST	Alaska	1/1/17	1/1/19
	GBR3D	7/8/18	7/5/19		WildOcea	7/1/17	6/30/19	Singapore DC	DreamBig	10/1/18	4/1/19
	NPA	7/1/16	7/1/19		BackWild	8/1/18	3/13/19	Singapore SC	SpaceNex	6/1/18	6/1/19
	TinyGian	2/1/18	2/28/19	New York AMNH	Niagara	7/1/86		Sioux Falls	AmazAdve	12/2/17	6/30/19
Hastings	AMJ	6/21/18	6/20/19	Niagara NY DCI	Niagara	5/1/07			DreamBig	6/2/17	6/30/19
	DreamBig	10/19/17	10/1/19	Norwalk MA	OOBP	10/5/18	10/31/19		ISR	5/4/18	4/30/19
	FOTB	3/17/13	6/30/19	Omaha Zoo	BackWild	11/1/18	4/30/19		LastReef	1/30/15	6/30/19
	G3DNW	2/20/15			OOBP	3/30/18	3/31/19		MOC	12/31/18	1/31/19
	NPA	6/9/16	7/1/19	Orlando SC	AmazAdve	2/24/18	2/23/19		TinyGian	7/1/17	6/30/19
	TurtOdys	9/13/18	5/30/19		BackWild	11/1/18	10/31/19		TLR	7/1/17	6/30/19
	NPA	9/8/18	2/28/19		EarthFli	4/1/18	4/30/19	Speyer Dome	TurtOdys	9/1/18	1/31/19
	SOE	11/1/19			G3DNW	7/5/14	5/4/19	Stockholm	Jerusale	12/1/13	12/1/19
Houston MNS	AmazAdve	4/21/17	12/31/19		OOBP	4/16/18	4/30/19		Animatop	10/1/16	10/1/19
	DinoAliv	7/1/17	6/30/19	Paris Geo	AMJ	3/7/18	3/6/19		DreamBig	3/15/18	3/15/19
	DreamBig	2/17/17	12/31/19		SFLIS	1/30/18	1/29/19	Sudbury	BackWild	9/4/18	6/30/19
	NPA	7/1/18	12/31/19	Parker	HidUniv	7/29/18	7/21/19		DreamBig	2/17/17	6/30/19
	OOBP	3/30/18	3/31/19	Pensacola NAM	ACGOTS	5/26/17	6/30/19		HumpbWha	9/20/11	6/30/19
	Volcanoes	11/9/18		Peoria RM	AmazAdve	6/20/18	1/19/19		MOC	9/7/17	10/31/19
	WildAfr	6/1/16	6/30/19		AMJ	2/16/18	2/15/19		NPA	2/12/16	6/30/19
	WTR3D	4/1/18	5/31/19		FOTB	4/1/16	6/30/19		TinyGian	6/24/16	5/31/19
	ExtrWeat	4/1/18	4/1/19		Mummies	10/16/18	10/31/20	Syracuse MOST	TurtOdys	12/7/18	12/6/19
	FightPil	7/1/13			OOBP	9/28/18	9/30/19	Tallahassee CLC	DinoAliv	1/31/19	1/31/19
	ISR	5/5/18	4/30/19		OOBP	6/30/18	6/30/19		AmazAdve	4/25/18	6/30/19
	SpaceNex	3/1/16	2/1/19		WWDP3D	6/30/18	6/30/19		AMJ	2/16/18	2/15/19
Hutchinson	AirRacer	1/19/18	1/31/19	Philadelphia FI	DreamBig	3/1/18	2/28/19		BackWild	10/18/18	10/18/19
	D-Day	12/31/17	1/31/20		ExtrWeat	2/11/17	2/11/19		ExtrWeat	5/19/17	5/1/20
	GWS	7/1/17	12/31/19		OOBP	5/1/18	5/1/19		FOTB	1/18/13	6/30/19
	Kenya	5/30/15	6/30/19		Vikings	10/13/18	10/1/19		MOTUW	3/20	
	LITAOA	5/15/15	7/19	Phoenix ASC	AmazAdve	8/16/18	2/15/19		TinyGian	1/6/16	7/31/19
	RobotsNG	5/20/16	6/12/19		IncrPred	10/19/18	10/31/19		WildAfr	5/15/16	6/30/19
	SpaceNex	9/8/17	3/30/19		OOBP	5/4/18	5/31/19		WWDP3D	4/19/16	7/31/19
	TOTIA	7/1/17	11/31/19		TOTIA	12/1/18	12/31/19	Thessaloniki	DreamBig	10/28/17	10/2/19
Indianapolis Imx	AmazAdve	9/8/17	6/7/19		WildAfr	3/2/18	3/31/19	Tijana	AMJ	3/1/18	2/28/19
	AMJ	6/8/18	6/7/19	Pittsburgh CSC	AmazAdve	11/17/17	6/30/19		ExtrWeat	7/28/17	6/1/19
	HumpbWha	8/17/16	6/5/19		BackWild	8/31/18	6/30/19		Jerusale	4/1/15	3/14/19
	Hurrican	2/9/18	2/8/19		DreamBig	11/17/17	12/31/19		OOBP	4/1/18	4/30/19
	JTS	8/31/18	12/30/19		NPA	2/12/16	2/28/19	Toronto OP	ACGOTS	6/1/18	6/1/19
Jersey City	BackWild	8/4/18	8/3/19		TinyGian	11/15/17	11/30/19	Toronto OSC	JTS	10/15/18	10/15/19
	DreamBig	2/17/17	12/31/19	Poitiers Imax	TinyGian	4/1/16	4/30/19		AMJ	3/15/18	6/30/19
	GBR3D	11/23/18	11/22/19	Poitiers Imax 3D	MOTUW	2/1/16	1/31/19		OOBP	6/15/18	6/30/19
	Jerusale	9/1/18	8/31/20	Port of Spain	Hurrican	4/26/18	4/25/19	Valencia Spn	AMJ	7/1/18	6/3/19
	NPA	2/12/16	6/24/19		JMCSC	2/7/17	2/28/19		DreamBig	4/1/18	6/30/19
	OOBP	6/25/18	6/30/19		TurtOdys	9/27/18	9/26/19		NPA	10/7/16	6/30/19
Kagoshima	Volcanoes	12/18	12/19	Portage Cel	DreamBig	6/30/17	7/31/19		PlanPowe	1/7/19	6/30/20
Kansas City Sci	DinoAliv	7/3/18	7/31/19		GCA	9/1/18	7/31/19		WWDP3D	7/1/16	3/31/19
	ExtrWeat	10/15/16	10/14/19		HumpbWha	9/1/18	7/31/19	Vancouver TWS	AmazAdve	12/22/17	6/30/19
Katowice CC	AfricAdv		9/30/19		NPA	10/1/18	10/1/19		AMJ	3/17/18	3/16/19
	TurtTale		9/30/19	Portland OMSI ET	TTA	6/1/18	7/31/19		HumpbWha	10/9/15	6/30/19
Keelung NMMST	HumpbWha	7/1/18	6/30/19		AmazAdve	2/16/18	2/15/19		Mummies	7/1/17	6/30/19
Kenner	FlyMons	6/4/16	6/3/20		AOTE	1/26/18	1/31/19		NPA	2/12/16	6/30/19
Killeen	FlyMons	9/15/17	9/15/20		BackWild	9/7/18	9/6/19		Pulse	7/1/17	6/30/19
Krakow CC	AfricAdv		9/30/19		DinoAliv	1/26/18	1/31/19		Volcanoes	11/17/18	9/30/19
	TurtTale		9/30/19		DreamBig	2/17/17	3/1/19	Victoria DCI	WOTA	1/1/17/18	6/30/19

Key to Film Abbreviations

Film	Title	Year	Dist	Film	Title	Year	Dist	Film	Title	Year	Dist
10Clover	10 Cloverfield Lane	2016	PPC	H&GWH	Hansel & Gretel: Witch Hunters	2013	3D	Rescue	Rescue 3D	2011	3D
12Strong	12 Strong	2018	WB	HappyFe2	Happy Feet Two	2011	3D	RETFC	Resident Evil: The Final Chapter	2017	3D
300ROAE	300: Rise of an Empire	2014	3D	WB	Heliboy	2019	LG	Revenant	Revenant, The	2016	FOX
A11FS	Apollo 11: First Steps	2019	MFF	Hercules	Hercules	2014	3D	Riddick	Riddick	2013	UP
AAOU	Avengers: Age of Ultron, The	2015	3D	HGCF	Hunger Games: Catching Fire, The	2013	LG	RME	Rocky Mountain Express	2011	SLC
ACGOTS	Aircraft Carrier: Guardian of the Seas	2019	3D	K2	Hungry Games: Mockingjay Part 2, The	2015	3D	ROA	Rock of Ages	2012	ROA
AdAstra	Ad Astra	2019	FOX	HiddPac	Hidden Pacific	2019	3D	RoboCop	RoboCop	2014	COL
AfterEar	After Earth	2013	SPE	HidUniv	Hidden Universe	2013	3D	RobotsNG	Robots	2015	3D
Aftersho	AfterShock	2010	HBMC	Hobbit1	Hobbit: An Unexpected Journey, The	2012	3D	RogueOne	Rogue One: A Star Wars Story	2016	3D
AGWN	Australia's Great Wild North	2018	K2	Hobbit2	Hobbit: The Desolation of Smaug	2013	3D	ROTB	Room on the Broom	2015	3D
AirRacer	Air Racers 3D: Forces of Flight	2012	3D	Hobbit3	Hobbit: The Battle of the Five Armies, The	2014	3D	ROTLA	Raiders of the Lost Ark	2012	3D
AIW	Alice in Wonderland	2010	3D	HPDH1	Harry Potter and the Deathly Hallows, Part I	2010	WB	RPO	Ready Player One	2018	3D
Aladdin18	Aladdin	2019	WDPD	HPDH2	Harry Potter and the Deathly Hallows, Part II	2011	3D	SammyAdv	Sammy's Adventures: The Secret Passage	2010	3D
AlienCov	Alien: Covenant	2017	FOX	HPHBP	Harry Potter and the Half-Blood Prince	2009	3D	SanAndre	San Andreas	2015	3D
Alita	Alita: Battle Angel	2019	FOX	HTTYD	How to Train Your Dragon: The IMAX Experience	2010	3D	Sanctum	Sanctum	2011	3D
AMATW	Ant Man and the Wasp	2018	3D	HTYD3	How to Train Your Dragon: The Hidden World	2019	UPC	SeaReX	Sea Rex: Journey to a Prehistoric World	2010	3D
AmazAdv	Amazon Adventure	2017	3D	Hubble3D	Hubble 3D	2010	3D	SevenSon	Seventh Son, The	2015	3D
AMMM	America's Musical Journey	2018	3D	HumpbWha	Humpback Whales	2015	3D	SFLIS	Search for Life In Space, The	2016	3D
AMMSM	Amazing Mighty Micro Monsters 3D	2016	3D	HungGame	Hunger Games, The	2012	LG	Shazam	Shazam!	2019	WB
AmSniper	American Sniper	2015	WB	Hurricane	Hurricane	2017	3D	Shrek4	Shrek Forever After: An IMAX 3D Experience	2010	3D
AncCaves	Ancient Caves	2012	MFF	IANF	I Am Number Four	2010	nWP	Skyfall	Skyfall	2012	3D
Angkor	Angkor Wat: The Lost Empire of Cambodia	2019	3D	IDR	Independence Day: Resurgence	2016	3D	SM4	Spider-Man: Homecoming	2017	3D
AntMan	Ant-Man	2015	3D	IFrankens	I, Frankenstein	2014	3D	SMFFH	Spider-Man: Far From Home	2019	3D
AOTE	Antarctica 3D: On the Edge	2014	3D	Inceptio	Inception: The IMAX Experience	2010	WB	SMITSV	Spider-Man: Into the Spider-Verse	2018	3D
APE	Antarctica's Penguin Emperors 3D	2014	3D	Incred2	Incredibles 2	2018	3D	SOE	Story of Earth, The	2018	3D
Aquamn	Aquaman	2019	3D	IncrPred	Incredible Predators	2015	3D	SOC	Secrets of Gravity, The	2017	3D
Arabia	Arabia	2010	3D	Inferno	Inferno	2016	SPE	SoldStor	Soldiers' Stories	2014	3D
ArteFowl	Artemis Fowl	2019	WDPD	Inhumans	Inhumans	2017	IMAX	Solo	Solo: A Star Wars Story	2018	3D
ASM	Amazing Spider-Man, The	2012	3D	Interstella	Interstellar	2014	PPC	SOTU	Secrets of the Universe	2019	3D
ASM2	Amazing Spider-Man 2, The	2014	3D	IOLM	Island of Lemurs: Madagascar	2014	3D	SpaceNex	Space Next 3D	2015	3D
AsterImp	Asteroid Impact	2019	3D	IronMan2	Iron Man 2: The IMAX Experience	2010	3D	SpaceJunk	Space Junk	2017	3D
AsterME	Asteroid: Mission Extreme	2016	3D	IronMan3	Iron Man 3	2013	3D	Spectre	Spectre	2015	3D
ATTLG	Alice Through the Looking Glass	2016	3D	ISR	In Saturn's Rings	2018	B&D	SSS	Super Science Showcase	2018	B&D
Avatar	Avatar: An IMAX 3D Experience	2009	3D	IT2	IT: Chapter 2	2019	WB	StarTrek	Star Trek: The IMAX Experience	2009	PPC
AvatarSE	Avatar: Special Edition: An IMAX 3D Experience	2010	3D	ITHOTS	In the Heart of the Sea	2015	WB	StarTrk2	Star Trek Into Darkness	2013	3D
Avengers	Marvel's The Avengers	2012	3D	Jenalee	Jerusalem	2013	3D	StarTrk3	Star Trek Beyond	2016	3D
Avengers4	Avengers: Endgame	2019	WDPD	JMCSC	Jean-Michel Cousteau's Secret Ocean	2015	3D	SuckPunc	Sucker Punch	2011	3D
AvengersW	Avengers: Infinity War	2018	3D	JohnCart	John Carter	2012	3D	SuiSquad	Suicide Squad	2016	3D
BackWild	Backyard Wilderness	2018	3D	JohnWick	John Wick	2014	SUM	Sully	Sully	2016	WB
BATB17	Beauty and the Beast	2017	3D	JonasBro	Jonas Brothers: The 3D Concert Experience	2009	3D	SunDogs	Superpower Dogs	2019	3D
BatSup	Batman v Superman: Dawn of Justice	2016	3D	Journey2	Journey 2: The Mysterious Island	2012	3D	Super8	Super 8	2015	3D
BeauPlan	Beautiful Planet, A	2016	3D	JRNGB	Jack Reacher: Never Go Back	2016	PPC	SW7	Star Wars: The Force Awakens	2015	3D
BenHur	Ben-Hur	2016	3D	JRSR	Jack Ryan: Shadow Recruit	2014	PPC	SW8	Star Wars: The Last Jedi	2017	3D
BFTB	Back From the Brink	2019	3D	JTGS	Jack the Giant Slayer	2013	3D	SW9	Star Wars: Episode IX	2019	3D
BlackPan	Black Panther	2018	WDPD	JTM	Journey to Mecca	2009	CPD	TA	Tornado Alley	2011	3D
BladeRun	Blade Runner 2049	2017	3D	JTS	Journey to Space 7	2015	K2	TDOTM	Transformers: Dark of the Moon	2011	3D
BTBW	Born to Be Wild	2011	3D	JTTSP	Journey to the South Pacific	2013	3D	TermGeni	Terminator Genisys	2015	3D
CACW	Captain America: Civil War	2016	3D	JungBook	Jungle Book, The	2016	3D	ThisIsIt	This Is It: The IMAX Experience	2009	SPE
CapitMarv	Captain Marvel	2019	WDPD	JupiAsce	Jupiter Ascending	2015	3D	Thor	Thor	2011	3D
CapPhil	Captain Phillips	2013	3D	JuraPark	Jurassic Park 3D	2013	3D	ThorRag	Thor: Ragnarok	2017	3D
Cars2	Cars 2	2011	3D	JuraWorl	Jurassic World 3D	2015	3D	Tintin	Adventures of Tintin: Secret of the Unicorn	2011	3D
CATWS	Captain America: The Winter Soldier	2014	3D	JustLeag	Justice League	2017	WB	TinyGian	Tiny Giants 3D	2014	3D
Chappie	Chappie	2015	3D	JWFK	Jurassic World: Fallen Kingdom	2018	3D	Titanic3D	Titanic 3D	2012	3D
ChriCarol	Christmas Carol: An IMAX 3D Experience, A	2009	3D	Kenya	Kenya 3D: Animal Kingdom	2013	3D	TMNT	Teenage Mutant Ninja Turtles	2014	3D
Cinderella	Cinderella	2016	3D	Kingsman	Kingsman: The Golden Circle	2017	3D	TomLaid	Tommy Lee Jones: The Last Days of Patton	2015	3D
CloudAtl	Cloud Atlas	2012	WB	Kong	Kong: Skull Island	2013	3D	Tomorow	Tomorrowland	2015	WDPD
Commuter	Commuter, The	2018	LG	LastReef	Last Reef, The	2012	3D	TopGun3D	Top Gun 3D	2013	3D
ConqOTS	Conquest of the Skies	2017	3D	LegeTarz	Legend of Tarzan, The	2016	3D	TOTIA	Titans of the Ice Age	2013	3D
Contagio	Contagion	2011	WB	LegoBatm	Lego Batman Movie, The	2017	WB	ToyStor3	Toy Story 3	2010	3D
CrimPeak	Crimson Peak	2015	UP	LegoMov2	Lego Movie 2: The Second Part, The	2019	WB	ToyStor4	Toy Story 4	2019	3D
Cuba	Cuba	2019	3D	LesMis	Les Misérables	2012	UP	TrainTim	Train Time	2019	SLC
CWACOM	Cloudy With a Chance of Meatballs	2009	3D	LIAD	Life in a Day	2011	NGD	Trans4	Transformers: Age of Extinction	2014	3D
DarkKnir	Dark Knight Rises, The	2012	WB	LifeTree	Life of Trees, The	2014	3D	Transcen	Transcendence	2014	WB
DarkMind	Darkest Minds, The	2018	FOX	LionKing19	Lion King, The	2019	WDPD	Trolley	Trolley, The	2018	3D
DarkPhoe	Dark Phoenix	2019	FOX	LITAOA	Living in the Age of Airplanes	2019	3D	TroLeg	Tron: Legacy: An IMAX 3D Experience	2010	3D
DarkShad	Dark Shadows	2012	WB	LOF	Legends of Flight	2017	3D	TRCFT	Transformers: Revenge of the Fallen	2009	PPC
D-Day	D-Day: Normandy 1944	2014	3D	Logan	Logan	2017	FOX	TTA	To the Arctic	2012	3D
Deadpool	Deadpool	2016	FOX	Lorax	Dr. Seuss' The Lorax	2012	3D	TTK	Transformers: The Last Knight	2017	3D
DiverG1	Divergent Series: Allegiant, The	2016	3D	LOTG	Legend of the Guardians	2010	3D	TTT	Touch the Stars	2013	3D
Divergen	Divergent	2014	MA	SUM	Museum Alive 3D	2010	3D	TurOdyss	Turtle Odyssey	2019	3D
DPTP	Dinosaur Passage to Pangaea	2011	3D	SGI	Magnificent Seven, The	2016	3D	TurtTale	Turtle's Tale: Escape from Paradise, A	2013	3D
DracUnto	Dracula Untold	2014	UP	Malefic	Maleficent	2014	3D	TwicEclp	Twilight Saga: Eclipse, The IMAX Experience	2010	SUM
Dragons	Dragons: Real Myths and Unreal Creatures	2013	3D	ManUNCLE	Man from U.N.C.L.E., The	2015	3D	UA	Underworld Awakening	2012	3D
DreamBig	Dream Big: Engineering Our World	2017	3D	MazeRunn	Maze Runner, The	2014	FOX	UnderSea	Under The Sea 3D	2009	3D
DStrang	Doctor Strange	2016	3D	Meerkats	Meerkats 3D	2018	3D	UP	Ultimate Wave Tahiti 3D, The	2018	3D
DSC	Deepsea Challenge 3D	2015	3D	MEG	Meg, The	2018	WB	VanGogh	Van Gogh: Brush with Genius	2009	MFF
Dumbo	Dumbo	2019	WDPD	Megamind	Megamind	2010	3D	VenomSony	Venom	2018	SPE
Dunkirk	Dunkirk	2017	WB	Men in Black III	Men in Black III	2012	3D	Volcanoes	Volcanoes	2018	3D
DUTA	Dinosaurs Under the Aurora	2012	3D	MI3	Men in Black International	2019	SPE	VOT	Voyage of Time	2016	IMAX
DWH	Deepwater Horizon	2016	LG	MICOB	Mortal Instruments: City of Bones, The	2013	3D	Walk	Walk	2015	3D
EarthFl	Earth's First	2017	3D	MIP	Mission: Impossible – Fallout	2018	3D	Warcraft	Warcraft	2016	3D
EarthWin	Earth Wins, The	2013	HFL	MIGP	Mission: Impossible – Ghost Protocol	2011	PPC	Watchmen	Watchmen: The IMAX Experience	2009	WB
Electrop	Electropolis	2014	3D	MIRN	Mission: Impossible – Rogue Nation	2015	3D	WaterDivi	Water Diviner, The	2015	WB
Elysium	Elysium	2013	SPE	MJTA	Magic Journey to Africa	2010	3D	WildAfr	Wild Africa 3D	2013	3D
EnderGam	Ender's Game	2014	3D	MMHWGA	Mamma Mia! Here We Go Again	2018	3D	WildCats	Wild Cats 3D	2015	3D
EQ	Edge of Tomorrow	2014	3D	MNM	Mars Needs Moms!	2011	3D	WildDream	Wild Dream, The	2010	3D
Equalizer	Equalizer, The	2014	SPE	MOC	Mysteries of China	2016	3D	WizardOz	Wizard of Oz, The	2013	3D
Equalizer2	Equalizer 2, The	2018	SONY	MortEng	Mortal Engines	2018	UP	WM	Watermelon Magic	2013	3D
Everest3D	Everest	2015	3D	MOS	Man of Steel	2013	3D	WOTA	Wonders of the Arctic	2014	3D
ExpChesa	Expedition Chesapeake	2019	B&D	MOTUW	Mysteries of the Unseen World	2013	3D	WOTT	Wrath of the Titans	2017	3D
ExtWest	Extreme Weather	2016	3D	MounQue	Mountains	2017	3D	Wrinkle	Wrinkle in Time, A	2018	WDPD
FastFive	Fast Five	2011	UP	MRDC	Maze Runner: The Death Cure	2018	FOX	WTM	We, The Marines	2017	MFF
FBATWTF	Fantastic Beasts and Where to Find Them	2016	3D	MTTM	Molecules to the Max	2009	3D	WTP	We the People	2013	ISP
FBDGOG	Fantastic Beasts: The Crimes of Grindelwald	2018	3D	MTTN	Metallia Through the Never	2013	3D	WTVTA	Where the Wild Things Are: The IMAX Experience	2009	WB
FD5	Final Destination 5	2011	WB	Mummy	Mummy, The	2015	3D	WW	Wonder Woman	2017	3D
FindingDory	Finding Dory	2016	3D	MVA	Monsters vs. Aliens: An IMAX 3D Experience	2009	3D	WWDPP3D	Walking With Dinosaurs: Prehistoric Planet 3D	2014	3D
FinesHou	Finest Hours, The	2016	3D	NATM2	Night at the Museum 2: Battle of the Smithsonian	2009	FOX	xxX	xxX: Return of Xander Cage	2017	3D
FirstMan	First Man	2018	3D	NATM3	Night at the Museum 3: Secret of the Tomb	2014	FOX	Zootopia	Zootopia	2016	3D
FlyMons	Flying Monsters 3D	2011	3D	NewMutan	New Mutants, The	2019	FOX				
Focus	Focus	2015	3D	Noah	Noah	2014	PPC				
ForrGump	Forrest Gump	2014	PPC	NPA	National Parks Adventure	2016	3D				
FOTB	Flight of the Butterflies	2012	3D	Nun	Nun, The	2018	WB				
FotF	Fate of the Furious, The	2017	UP	Oblivion	Oblivion	2013	UP				
Frankenw	Frankenweenie	2012	3D	Ojanmar	Ojamaru	2009	3D				
FreeSolo	Free Solo	2019	IMAX	OOB	Out of Bounds	2019	3D				
FSF	Fifty Shades Freed	2018	UP	OOPB	Oceans: Our Blue Planet	2018	3D				
Furious7	Furious 7	2015	UP	OTGAP	Oz the Great and Powerful	2013	3D				
Furusato	Furusato: World Heritage Viewed From Space	2010	3D	PA2	Paranormal Activity 2	2010	PPC				
G3DNW	Galapagos 3D: Nature's Wonderland	2014	3D	P4A	Paranormal Activity 4	2014	PPC				
GBR3D	Great Barrier Reef	2018	3D	PacRim	Pacific Rim	2013	3D				
GBRF	Great Bear Rainforest	2019	3D	Pandas	Pandas	2018	3D				
GDDTDH	Good Day to Die Hard, A	2013	FOX	Penguins	Penguins 3D	2013	3D				
Geostorm	Geostorm	2017	3D	Puss in Boots	Puss in Boots	2011	3D				
Ghobstors	Ghobstors	2016	3D	Pixels	Pixels	2017	3D				
GlJoe	G.I. Joe: Retaliation	2013	3D	PlanPower	Planet Power	2013	3D				
GITS	Ghost in the Shell	2017	3D	Pono	Pono: The Secret of Hawaii	2017	3D				
Glass	Glass	2019	WDPD	POP	Prince of Persia: The Sands of Time	2010	WDPD				
GlobSoun	Global Soundscapes: Mission to Record the Earth	2016	3D	PTCOTC	Pirates of the Caribbean: On Stranger Tides	2011	3D				
GodeEgyp	Gods of Egypt	2016	3D	Predator	Predator	2010	3D				
Godzilla	Godzilla	2014	3D	PrehPark	Prehistoric Park	2009	3D				
GodzillaKM	Godzilla: King of the Monsters	2019	WB	Promethe	Prometheus	2012	3D				
GOTG	Guardians of the Galaxy	2014	3D	PRU	Pacific Rim: Uprising	2018	UP				
GOTG2	Guardians of the Galaxy, Vol. 2	2017	3D	PTJH	Pandas: The Journey Home	2014</					

Directory of Organizations Mentioned in this Issue of LF Examiner

Distributors' abbreviations are listed in **bold**.

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Classified Ads

POSITION SOUGHT

Hi everyone!
It's been one of the great privileges of my life to serve this incredible community. Most of you know that I have spent a big part of my career at **Evans & Sutherland** advocating high resolution digital dome systems, producing original full-dome digital shows, and distributing converted giant screen content for these systems. Most recently I served as the Director of New Business Development for **Mouse-trappe**, an experience design and production studio in Burbank, CA.

Currently I am seeking a creative role in the production of original giant screen films and other immersive digital content that can integrate experience design to immerse audiences in emotionally resonant and unforgettable ways.

I am a broadly skilled writer/producer/director specializing in immersive media with a reputation as an excellent collaborator, and proficient at guiding projects from concept through production. I am a confident leader, a self-starter, highly motivated, with effective interpersonal skills and a strong creative vision.

I am a highly social and personable professional possessing strong relation-

al skills, well respected and admired by his colleagues and coworkers. I'm proficient in international business.

I am also an engaging and entertaining public speaker and educator with extensive experience speaking to audiences of all sizes at the university level and at public conferences both domestic and international. I know I could be an invaluable asset to your team.

I would love to discuss potential opportunities with you.

Thanks!

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SHORTS

Free GSCA webinar on Jan. 29

The **Giant Screen Cinema Association** will hold a free webinar on at 1:00 pm EST on Jan. 29 to highlight the award-winning “year of the engineer” program that **Discovery Place** in Charlotte, NC, developed in 2017. The museum established partnerships with 250 leaders in science, technology, engineering, and math (STEM) and provided 2,500 experiences that exposed 250,000 guests to “the wonders of STEM,” using **MacGillivray Freeman Films’** GS film *Dream Big* as a key component.

The webinar will explain how Discovery Place’s divisions cooperated to create the program and will show how the techniques can be applied for other projects at other museums.

For more information and to sign up, visit giantscreencinema.com.

2018 IMAX box office tops \$1B

For the first time, annual worldwide box office grosses for IMAX films exceeded \$1 billion in 2018, with 10% coming from local-language films in international markets such as China, South Korea, Japan, Russia, and India. The company had been approaching the milestone for the past two years, taking in \$965.7 million in 2016 and \$976.5 million in 2017.

Six of the top ten grossers featured “IMAX DNA,” meaning that they were either shot with IMAX cameras or included sequences with a taller aspect ratio exclusively in IMAX theaters. The top ten included four **Marvel** titles — *Avengers: Infinity War* (\$143.6 million), *Black Panther* (\$81.1 million), *Venom* (\$42.8 million) and *Ant-Man and the Wasp* (\$32.1 million) — as well as *Jurassic World* (\$66.8 million) and *Mission Impossible: Fallout* (\$53.6 million). Of the local-language titles, eight of the top ten were Chinese productions.

St. Paul’s Mike Day to retire

Mike Day, executive vice president of the **Science Museum of Minnesota** has announced that he will retire next year, ending 40 years at the museum and in the giant-screen business. Day started at the museum in 1978 as a new building, housing the original IMAX Dome, opened, and worked alongside **Mike Sullivan**, the theater’s founding director, who had come from the world’s first IMAX Dome theater, in San Diego. In the fall of 1978, St. Paul’s Omnitheater hosted the first GS industry association meeting, the Space Theater Consortium, predecessor to the **Giant Screen Cinema Association**.

Day served as executive producer for

seven GS films that SMM produced from 1981 to 2002, including *Great Barrier Reef* (1981), *Ring of Fire* (1991), *Tropical Rainforest* (1992), and *Jane Goodall’s Wild Chimpanzees* (2002). In 2010 he was one of the founders of the **Giant Dome Theater Consortium**, a group of seven theaters that fund production of films intended for the dome. The group has supported *Tornado Alley* (2011), *National Parks Adventure* (2016), and *Cuba* (2019).

In 1999, when the museum moved to a new building, Day oversaw the construction of a new Omnitheater that was convertible between dome and flat-screen projection. It is one of only two such theaters extant today.

Although he is officially retiring on March 3, Day told a local newspaper that he will work one day a week through the summer to oversee the completion of a \$26 million renovation of the building and the conversion of the theater’s projection system from 15/70 film to digital. (The brand of the digital system has not been officially announced.)

Day served as executive producer for



Mike Day

Maarten Roos to rep BIG & Digital

Las Vegas-based distributor **BIG & Digital** has named **Maarten Roos** to represent its films to giant-screen and fulldome theaters in museums and planetariums in Europe. Roos is a planetary scientist who has been working as a freelance filmmaker since 2007, managing over 70 productions in the areas of science, technology, medicine, music, and art. He also teaches film and editing workshops in collaboration with the Oxford Documentary Film Institute.

He can be reached at mroos@biganddigital.com.



Maarten Roos



Marvel’s *Avengers: Infinity War* was the top-grossing IMAX DMR film of 2018.